

Volume

#

R0236

INDEX DIAGRAM.

Township 17 S. Range 13 East

	41	40	39									
51	6	106	5	100	4	89	3	80	2	71	1	33
52	110	105		100		88		79		71		
53	7	104	8	99	9	88	10	79	11	70	12	34
54	109	103		98		87		78		69		
55	18	107	17	97	16	85	15	77	14	69	13	34
56	108	107		96		84		77		68		
57	10	101	20	95	21	83	22	75	23	67	24	34
58	107	95		93		87		74		65		
59	30	94	20	93	28	88	27	74	26	65	25	35
60	107	92	92	91	83	81		73		63		
61	31	92	32	90	33	80	34	77	35	63	36	36
	31	30	30	30				29 ¹		29 ²		

Meanders Page.....

Preliminary Oaths of Assistants.

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 18 . }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this , Axeman.
day of , 18 . } , Axeman.

INDEX DIAGRAM.

Township 117 S. Range 114 East

	126	126	127	128			
33	6 167	5 166	4 169	3 168	2		1
	147	153	165	169			
34	7 147	6 153	0 164	10 167	11		12
	146	158	159	164			
34	18 146	17 158	16 158	15 163	14		13
	145	151	158	162			
34	10 145	20 150	21 157	22 167	23		24
	144	150	157	161			
35	30 143	20 149	26 156	27 161	26		25
	141	149	156	160			
36	31 141	32 148	33 154	34 159	35		36
	123	123	123	124			

Meanders Page

Preliminary Oaths of Assistants.

We,

S. [initials]

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 18 . }

We,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this }
day of , 18 . } , Axeman.

, Axeman.

INDEX DIAGRAM.

Township ~~20~~ South, Range ~~25~~ East

187	188	189	189	190	190		
183	2034	2036	240	245	248	1	193
	2034	2035	239	245	247	250	249
183	2033	2035	238	244	248	12	193
	222	232	238	243	246	254	
184	18	221	17	231	16	237	15
	220	230	230	241	252	254	
184	19	219	20	225	21	229	22
	218	225	228	229			
185	30	218	29	224	28	227	27
	217	274	226	227			
186	31	217	32	223	33	34	35
	205	205	206				

4th Star. Meanders Page 256

Preliminary Oaths of Assistants.

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 18 . }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this }
day of , 18 . }

INDEX DIAGRAM.

Township 20 S. Range 26 E.

<u>274</u>	<u>275</u>	<u>276 N</u>				
6 <u>292</u>	5 <u>293</u>	4	3	2	1	
<u>291</u>	<u>293</u> <u>294</u>					
7 <u>290</u>	8	9	10	11	12	
<u>290</u>						
18 <u>289</u>	17	16	15	14	13	
<u>288</u>						
19 <u>287</u>	20	21	22	23	24	
<u>287</u>						
30	29	28	27	26	25	
31	32	33	34	35	36	

Meanders Page 290

Preliminary Oaths of Assistants.

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, *Chainman.*

, *Chainman.*

, *Chainman.*

, *Chainman.*

Subscribed and sworn to before me this }
day of , 18 }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this , *Axeman.*
day of , 18 . }

INDEX DIAGRAM.

Township 19 S				Range 25 E			
34	35	36	37	38	39	310	311
6 367	5 357	4 349	3 348	2 341	1 310		
367	368	356	349	340	340		
7 366	8 355	9 348	10 339	11 333	12 309		
365	365	355	347	338	332		
18 364	17 354	16 347	15 338	14 332	13 309		
363	363	353	346	337	331		
10 362	20 353	21 345	22 336	23 330	24 308		
361	361	352	345	336	330		
80 360	29 352	28 344	27 335	26 329	25 307		
359	359	351	343	334	328		
31 358	32 350	33 348	34 334	35 328	36 307		

Meanders Page.....

Preliminary Oaths of Assistants.

We,

do solemnly swear, that we will well and faithfully execute the duties of chain carriers; that we will level the chain and lay it straight, and plainly, and plainly place the tally-pins either by sticking or dropping the same; that we will report the height of all objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chairman.

, Chairman.

, Chairman.

, Chairman.

Surveyor General, before me this }
day of October, 18 }

We,

do solemnly swear that we will well and truly perform the duties of ax-men in the establishment of corners and other data, according to instructions given us, and to the best of our skill and ability, in the survey of the

, Axeman.

, Axeman.

BOOK A-236

INDEX DIAGRAM.

Township 19 S Range 26 E

6	5	4	3	2	1
7	8	9	10	11	12
15	17	16	15	14	13
19	20	21	22	23	24
30	387 20	25	27	26	25
381	380 384				
31	379 32	379 33	34	35	36

Meanders Page 385

Preliminary Oaths of Assistants.

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chairman.

, Chairman.

, Chairman.

, Chairman.

Subscribed and sworn to before me this }
day of , 18 . }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this }
day of , 18 . }

, Axeman.

, Axeman.

BOOK A-236

INDEX DIAGRAM.

Township 25 S, Range 24 E

6	5	4	3	2	1 <u>403</u>
7	8	9	10	11	12 <u>403</u>
16	17	18	19	14	13 <u>403CC</u>
19	20	21	22	23	24 <u>401</u>
20	20	28	27	26	25 <u>401</u>
21	22	23	24	25	26 <u>400</u>

Meanders Page.....

Preliminary Oaths of Assistants.

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chairman.

, Chairman.

, Chairman.

, Chairman.

Subscribed and sworn to before me this }
day of , 18 . }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this }
day of , 18 . }

, Axeman.

, Axeman.

BOOK A-236

INDEX DIAGRAM.

Township D4S Range D4 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25 418
31	32	33	34	35	36 417

436 435 435 434 433 433 419 419 417 419

Meanders Page

Preliminary Oaths of Assistants.

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 18 . }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this , Axeman.
day of , 18 . } , Axeman.

BOOK A-236

INDEX DIAGRAM.

Township Z-8-S, Range Z-3-E

6	5	4	3	2	1 <i>451</i>
7	8	9	10	11	12 <i>450</i>
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

Preliminary Oaths of Assistants.

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 18 . }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this } , Axeman.
day of , 18 . } , Axeman.

BOOK A-236

INDEX DIAGRAM.

Township

D7S

Range

Z3E

483

484

482	6	588	5	4	3	2	1	466
528		527						
483	7	526	6	517	9	10	11	12 465
526		525		516		508	509	
480	18	524	17	515	16	515	15	508 14 507 13 464
524		523		514	17	507	501	498
480	19	527	20	516	21	506	22	500 23 497 24 463
527		521		517		505	500	496
479	30	520	29	511	28	505	27	499 26 495 25 463
519		518		510		504		494
31		32		33		34	493	35 494 36 461
						478	477	477

Meanders Page

Preliminary Oaths of Assistants.

WE, _____

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the _____

_____, *Chairman.*

_____, *Chairman.*

_____, *Chairman.*

_____, *Chairman.*

Subscribed and sworn to before me this _____ }
day of _____, 18 _____. }

WE, _____

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the _____

Subscribed and sworn to before me this _____, *Axeman.*
day of _____, 18 _____. } _____, *Axeman.*

BOOK A-236

INDEX DIAGRAM.

Township 26S, Range 23E

6	5	4	3	2	1
				573	567
7	8	9	10	11	12
		571	572	566	543
18	17	16	15	14	13
			569	558	543
			568	565	557
19	20	21	22	23	24
			565	556	542
			564	561	555
20	29	28	27	26	25
		563	560	558	541
			562	559	553
31	32	33	34	35	36
W585			559	554	541

Meanders Page

Preliminary Oaths of Assistants.

We, _____

do solemnly swear that we will well and faithfully execute the duties of chain carriers: that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

-, Chairman.

, Chainman.

-, Chairman.

Chairman,

Subscribed and sworn to before me this
day of , 18 . }

W_R, ..., W_R_n are the weights of the neurons in the hidden layer.

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this _____, 18_____.
day of _____, 18_____.
} *Swornman.*
} *Axeman.*

.35

BOOK A-236

INDEX DIAGRAM.

Township 26 S., Range 22 E.

6	5	4	3	2	1
7	8	9	10	11	12
	<i>619</i>	<i>621</i>	<i>618</i>		
18	17	<i>620</i>	<i>617</i>	<i>617</i>	14
					13
	<i>622</i>	<i>623</i>	<i>616</i>		
19	20	<i>622</i>	<i>615</i>	<i>613</i>	24
			<i>615</i>	<i>613</i>	
30	29	<i>624</i>			
			<i>611</i>	<i>610</i>	<i>610</i>
31	32	33	34	<i>617</i>	35
				<i>598</i>	<i>597</i>

Meanders Page

Preliminary Oaths of Assistants.

WE, _____

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

_____, *Chairman.*

_____, *Chairman.*

_____, *Chairman.*

_____, *Chairman.*

Subscribed and sworn to before me this _____
day of _____, 18 _____. }

WE, _____

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this _____, _____, *Axeman.*
day of _____, 18 _____. } _____, *Axeman.*

J. E. B.

FIELD NOTES

Re-survey
OF THE SURVEY OF

The Exterior Lines of Township 17 South
RANGE 13 EAST.

Of the Salt Lake Meridian,

Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

Under his Contract No. 196, dated January 18th 1894.

Survey commenced May 15th, 1894.

Survey completed April 18th, 1895.

(12503-2,000.)

Dist	
573	4.00.26 ✓
713	3.00.57 ✓
	5.00.13
SR	1.00.30 ✓
LS	4.00.76 ✓

Names and Duties of Assistants.

Wallace Watson Chairman
Daniel Morris Chairman
Edward Redmond Axeman
Dory Johnson Flagman

INDEX DIAGRAM.

Township 17⁰, Range 1² E.

15	14	14				
6	5	4	3	2	1	7
7	8	9	10	11	12	7
18	17	16	15	14	13	8
19	20	21	22	23	24	8
30	29	28	27	26	25	9
31	32	33	34	35	36	10
5	1	4		2	3	

Meanders Page.....

Preliminary Oaths of Assistants.

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; to fill level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping them; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

XUMEN

, Chainman.

, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 18 }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this }
day of , 18 }

[1.—PRELIMINARY OATH OF CHAINMEN.]

W^e. Wallace Watson, Geo white

and John Dallin

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain upon even and uneven ground and plum the tally pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true length of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the 17th R^d 13^v and 14^E; T²⁰ R²⁵ & 26^E; T¹⁹ R²⁵ and 26^E; T²⁴ R^{24, 25 and 26 E}; T²⁷ R^{23 E}; T²⁶ R^{22 and 23 E}; T¹⁸ R^{13 E} of the Salt Lake base and meridian in the Territory of Utah.

Wallace Watson, Chainman.

G. F. White, Chainman.

John W. Dallin, Chainman.

, Chainman.

Subscribed and sworn to before me this

12th

day of May 1894

Hugh A. Dougall

Notary Public

My Commission expires Jan 9/95

Mr. Lovell Wells,

and

do solemnly swear that we will well and truly perform the duties of Axemen, in the establishment of corners and other duties, according to instructions given us, and to the best of my skill and ability, in the survey of ~~T. 18 R.~~
~~13 and 16 E., 9. 19 and 20 R. 25 and 26 E., 9. 24 1/2~~
~~R. 24, 25 and 26 E., 9. 27 S. R. 23 E., 9. 26 R. 22~~
and 23 E., 9. 26 R. 22 and 23 E. and T. 18 R. 13 E.

of the Salt Lake base and meridian in the Territory of Utah.

Lovell Wells, Plagman

, Axeman

Subscribed and sworn to before me this 18th

day of June 1894

P. E. Paxton

U. S. Dep. Surv.

A-736

28C

[1.—PRELIMINARY OATH OF CHAINMEN.]

W^e. I Samuel Morris

and _____
do solemnly swear that ^I will well and faithfully execute the duties of chain carriers; that ^I will level the chain upon even and uneven ground and plum the tally pins, either by sticking or dropping the same; that ^I will report the true distance to all notable objects, and the true length of all lines that ^I assist in measuring, to the best of ^{my} skill and ability, and in accordance with instructions given ^{me}, in the survey of the P.L.T.O.R.^s.

13 and 14 E; 9 20.0 R^s 25 and 26 E; 9 19.0 R^s

25 and 26 E; 9 24.0 R^s 24, 25 and 26 E; 9 27.0

R 23.6; 9 26.0 R^s 28 and 23 E and 9 18.0 R 13 E

of the Salt Lake base and meridian in the Territory of Utah.

Samuel L. Morris, Chainman.

, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this 14th

day of May 1894

D. E. Paxton

U.S. Dep. Sur.

28C

A-234

(28D)

[2.—PRELIMINARY OATH OF A]

Mr. Edward Redmond.

and

do solemnly swear that I will well and truly perform
the duties of Axeman, in the establishment of corners and
other duties, according to instructions given me, and to the
best of our skill and ability, in the survey of R 17. R 13 E;
R 17. R 14 E; R 20. R 25. & 26 E; R 19. R 25. & 26 E;
R 24. R 24. 25. and 26 E; R 27. R 23 E;
R 26. 0, R 22. and 23 E; R 18. R 13 E.

of the Salt Lake base and meridian in the Territory of
Utah.

Edward Redmond, Axeman.

, Axeman

Subscribed and sworn to before me this 12th

day of May 1894

Houghin Donalds

Notary Public

My Commission expires Jan 19/95

28D

[2.—PRELIMINARY OATH OF AXEMEN.]

W^e. J. Doe Johnson

and
*do solemnly swear that we will well and truly perform
 the duties of Axeman, in the establishment of corners and
 other duties, according to instructions given us, and to the
 best of our skill and ability, in the survey of T17 S, R^o
 13 and 14 E; T¹⁸ N, R^o 25 and 26 E; T¹⁹ N, R^o 24 E; R^o
 25 and 26 E; T²⁰ N, R^o 23 E; T²¹ N, R^o 22 and 23 E; V.
 T¹⁸ N R 13 E.*

of the Salt Lake base and meridian in the Territory of
 Utah.

Paul Johnson, Axeman.

, Axeman

Subscribed and sworn to before me this 12th

day of May 1894

Bough McDougall

Notary Public

My Commission expires Jan 19/95

28 E

Survey of South Bids. Tp. 17 S R. 13 E. D. L. M.

Survey commenced May 15th 1894
with a Buff and Berger mountain
transit fitted with solar screen and
diagonal eye-piece.

Preliminary to going to work I put my
transit in adjustment and correct
my chain by a standard furnished by
the Gen. Surveyor.

Obs on Sun's center May 15th for meridian
at 4:30 P.M. mountain time.

Instrument on E line of Tp at $\frac{1}{4}$ sec.
cor best secs. 25 and 30 in Lat $39^{\circ}17' + 1.0$
 $= 39^{\circ}18.0$ N.

I clamp hor. plates at "0" and direct
telescope to reference point on approx-
imate meridian. Let h = sun's true altitude

Aph. Alt. Declination angle left.

$32^{\circ}39'$ $91^{\circ}28'$

$32^{\circ}19'$ $91^{\circ}10'$

$31^{\circ}59'$ $90^{\circ}54'$

$31^{\circ}43'$ $90^{\circ}42'$

Sum $128^{\circ}40'$ Sum $364^{\circ}14'$

Mean $32^{\circ}10'$ Mean $91^{\circ}03'.5$

Greenwich ast time of obs. May 15th, 11:30^m

Sun's decl. May 15th $+ 18^{\circ}55'56".1$

Hourly diff. 35.21×11.5 add, $6'44.9$

Sun's decl $19^{\circ}02'41''$

$h = 32^{\circ}10' - 15.0$ ref. $= 32^{\circ}08.5$

P.D. $90^{\circ} - 19^{\circ}02.7$ $70^{\circ}57'.3$

$1, \log \cos \text{azif}$ $39^{\circ}18.3' = .1113796$

$h .. \text{ Rec}$ $32^{\circ}08.5'$ $= .0722524$

Sum, 2.0 $142^{\circ}24.1'$

$1, \log \cos \text{azif}$ $71^{\circ}12' = 9.5082141$

$D - P.D.$ $14.7' = 9.9999960$

Sum 19.6918421 (a)

$\frac{1}{2} 2 \log \cos \text{azif}$ of $45^{\circ}28' = \frac{1}{2}(a) = 9.8459210$

$2 = 9.056$

The hor. angle turned is, $91^{\circ}03.5$; there-
fore the true bearing of my ref. line is
 $W 07.5 E$

I now deflect $07.5 W$ and drive a stake

Survey of South Side of Tp 17 S. R 13 E. D. L. M.

on line for future reference.

At 6:30 A.M. May 16th I set my instrument on this line and find its magnetic bearing is N 45° 43' W and magnetic declination is 15° 43' E. The mean declination is 15° 40' E.

I set my instrument over cor to Tps 17 and 18 S. R 13 and 14 E., which is a stone firmly set and properly marked as described in notes furnished by the Surv. Genl.

Hence I run W on a random line bet. secs. 1 and 36

Va 15° 44' E

40.00 Fall 67 ft to 0 of $\frac{1}{4}$ sec cor bet secs 1 and 36.

80.00 Make diligent search for cor to secs. 1, 2, 35 and 36, but do not find it.

West on a random line bet secs 2 and 35

Va 15° 44' E

40.06 Fall 20 3 ft to 0 of $\frac{1}{4}$ sec. Cor bet secs 2 and 35, which is a sandstone 12x12x5 ins. marked $\frac{1}{4}$ on N face, set in a mound of stone.

From this $\frac{1}{4}$ sec. cor. I run 089° 0' E on a true line bet. secs 2 and 35

Va 15° 40' E

Over rocky slope along N side of cañon Ravine bears N

14.80 High stony ridge bears N.W.

24.40 Stony ridge, begin gradual descent.

36.00 Gulch, course N.

40.03 Set a sandstone 22x7x5 ins. 16 ins in the ground for cor to secs. 1, 2, 35 and 36

measured with 1 notch on E and 5 notches on W edge, and raised a mound of stone 17 ft high, 2 ft base along side. Pits up. Land mountainous, soil, stony, & rate No timber.

Survey of South Ridy of 9.17 D.R. 13 E. O. L. M.

Mountainous on 40.03 chs.

Hence I run N 89° 0' E on a line line bet. secs. 1 and 36

at 15° 40' E

- 18.00 Canon bears S.W. and E.
21.40 Leave canon
23.80 Ridge bears W.W.
40.03 The $\frac{1}{4}$ sec. cor. bet secs 1 and 36 hereinbefore described.
41.70 Begin descent.
59.00 Coulter bears N and N.
63.00 Foot of hill ascended.
65.00 Top of ridge 1 bears N and N.
69.00 Wash bears N.E.
75.00 Top of hill bears N and N; descend to
80.03 The cor to tops 17 and 18 D Rs 13 and 14 E hereinbefore described.
Land mountainous; soil sandy and stony 3rd and 4th rate.
No timber.

Mountainous on 80.03 chs.

May 16th 1894

Supposing the balance of the S. bdy to be properly established. I re-establish the E bdy as per instructions from the U.S. Surv. Genl, and proceed with the subdivision of the top. After subdividing the eastern three tiers, I discover the western portion of the S. bdy to be irregular, and therefore proceed as follows:

Not finding the cor to secs 4, 5, 32 and 33 on the S. bdy of the top, I go to the $\frac{1}{4}$ sec. cor. bet secs 4 and 33 which is a $\frac{1}{4}$ cut in a sandstone ledge, with a mound of stone raised alongside.

Hence I run N 89° 0' W, being the same course as the eastern portion of the bdy is run on, on a random line bet. secs 4 and 33

Resurvey of Ditch. Ddy of 9/17/0. Rr 10 E. I. S. M.

	Va 15° 45' E
40.00	Set a temporary cor. to secs. 4, 5, 37 and 38 N 89° 0' W on a random line bet. secs 5 and 32 Va 15° 45' E
40.00	Set a temporary 1/4 acre cor.
40.10	Find 1/4 acre cor. in place 140 ft N of my line
80.00	Find cor to secs. 5, 6, 31 and 37, 12.8 ft N of my line.
	N 89° 0' W on a random line bet. secs 6 and 31 Va 15° 45' E
40.00	Find 1/4 acre cor 140 ft N of my line
79.40	Set a stake and make diligent search for N.W. cor of 7/8 and find same, 9 rods N and about 4.50 rods W of the point. The 7/8 of this not being subdivided I establish the Ddy of this 7/8 as follows. From the 1/4 acre cor. on the D line of the 7/8 bet secs 4 and 32 which is a cor. hereinbefore described. I run N 89° 0' W on a true line bet secs 4 and 33 Va 15° 45' E
6.80	Couler bears N.E.: ascend.
26.00	Top of mountain
38.00	Top of ledge 100 ft high.
40.00	It being impracticable to set a stone in the ground, I set a sandstone 24 x 12 x 10 ins., in a mound of stone 1 1/2 ft high, 2 ft base for cor to secs. 4, 5, 37 and 38 mounted with 4 notches on E, and 2 notches on W edge. Pits imp. Sand mountainous; soil mostly solid sandstone ledge. Scattering cedar trees along line. Mountainous on 40.00 chs.
	N 89° 0' W on a true line bet secs 5 and 32 Va 15° 45' E

Resurvey of South Ddry of T 17 N. R 13 E D.L.W.

4.00	Ledge of rock 20 ft high; enter dense artemesia undergrowth
18.60	Couler bears N.E.
30.30.	Couler 15 ft wide, 8 ft deep bears S.E.
40.00	Set a sandstone 18x12x3 ins, 2 ins in the ground for 1/4 sec. cor. marked 1/4 on N face raised a mound of stone 1 1/2 ft high, 2 ft base alongside. 0.16 ins.
80.00	Set a gypsum stone 16x10x6 ins 10 ins in the ground for cor to secs 5, 6, 31 and 32, marked with 5 notches on E and 1 notch on W edge. dug pits 18x18x12 ins in each sec. 5 1/2 ft dist. and raised a mound of earth 2 ft high 4 1/2 ft base alongside. Land nearly level; soil, sandy loam, 1st rate.
	No timber.
	Dense artemesia undergrowth on 7600 acs.

June 1st 1894

In accordance with my Additional Special Instructions dated March 18th 1895 I proceed as follows:

Survey commenced Apr 16th 1895.
Leaving previously reestablished Clark's Valley Guide Meridian according to the above named special instructions, I go to the cor to secs 5, 6, 31 and 32 on the Ddry heretofore reestablished by myself and run

N 89° 1' W on a true line bet sect. 6 and 31
Va 15° 45' E.

Through dense artemesia undergrowth over rolling ground.

40.00	Set a gypsum stone 12x12x7 ins, 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N face; dug pits 18x18x12 ins E and W of stone 5 1/2 ft dist. and raised a mound of earth 1 1/2 ft high, 3 1/2 ft base alongside
84.17	Intersect Clark's Valley Guide Meridian 9.37 chds S of cor to Ops 17 and 18 D R 12 E which is a cor. previously reestab-

Resurvey of South Side of T 17 S R 13 E D. S. M

lished by myself. Set a gypsum stone
16x8x6 ins 10 ins in the ground for closing
cor to Tps 17 and 18 S. R 13 E, marked with
6 grooves on N, E and S faces, and C.C. on W
face. dug pits 30x24x12 ins crosswise
on each line N and S. 4 ft and E of stone
8 ft dist. and raised a mound of earth
2 $\frac{1}{2}$ ft high 5 ft base alongside.

Sand rolling and level; soil sandy loam
2 $\frac{1}{2}$ in. rate.

No timber

Dense Artemesia undergrowth on 84.17 chs

Ap 16th 1895

Resurvey of East Bdry of T 17 S. R 13 E. N. d. M.

From the cor. to 9th sec 17 and 180 R 13 and
14 E I run N on a blank line
Va 15° 42' E

- 40.00 $\frac{1}{4}$ sec cor. bet. secs 31 and 36 is 5.116 E.
After diligent search I failed to find
the cor. to secs. 25, 30, 31 and 36
Continuing N I find many of the corners
missing and others out of line and
measurement.
- 482.22 Fall 116 ft N of N.E. cor. of 9th which is
stone firmly set in place as described
in notes furnished by Dr. Galt.

Hence I am $10^{\circ} 08' W$ on a true line bet.
secs. 1 and 6

Va 15° 40' E

- 2.20 Coulee' 15 ft deep bears S.
Leave coulee' bears $0^{\circ} 30' E$
42.22 Made diligent search but found no trace of
old cor. Set a sandstone 18x12x4 ins 12
ins in the ground for $\frac{1}{4}$ sec cor. marked
 $\frac{1}{4}$ on W face, raised a mound of stone
 $1\frac{1}{2}$ ft high, 2 ft base alongside.
58.41 Present track R. G. W. Ry bears $N 29^{\circ} W$
82.22 Old cor. out of place which I destroy and
Set a sandstone 12x9x5 ins 8 ins in the ground
for cor to secs. 1, 6, 7 and 12 marked with 1
notch on N and 5 notches on S edge and
raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft
base alongside. Pits imp.
Land level and rolling, soil sandy loam
and shale 2nd and 3rd rate.
No timber.

$10^{\circ} 08' W$ on a true line bet secs 7 and 12

Va 15° 38' E

- 22.50 Coulee' 15 ft wide 6 ft deep bears $0^{\circ} 80' W$
I find no trace of old cor. Set a sandstone
 $14 \times 8 \times 7$ ins 10 ins in the ground for $\frac{1}{4}$ sec
cor. marked $\frac{1}{4}$ on W face and raised a
mound of stone $1\frac{1}{2}$ ft high, 2 ft base
alongside. Pits imp.

Resurvey of East Bdy of T 17 S. R 13 E S. d. M.

41.00	Couler' bears N 80° W.
58.30	Couler' bears W.
80.00	Finds the old cor out of place. I destroy the same and reestablish the cor. by setting a sandstone 18x8x4 ins. 12 ins in the ground for cor to secs. 7, 12, 13 and 18 marked with 2 notches on N and 4 notches on S edge; dug pits 18x18x12 ins in each sec. $5\frac{1}{2}$ ft dist and raised a mound of earth 2 ft high $4\frac{1}{2}$ ft base alongside. Sand rolling; soil sandy and shale 3 rd rate. No timber.

	$0^{\circ}08'$ W on a true line bet. secs 13 and 18 Va $15^{\circ}40'$ E
9.16	Couler' bears S.E.
16.30	Couler' bears E
33.80	Couler' 6 ft wide 4 ft deep bears S.E.
40.00	Finding the corner out of place I destroy it and reestablish the cor as follows: Set a sandstone 15x10x5 ins 10 ins in the ground for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins N and S of stone $5\frac{1}{2}$ ft dist and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside.
63.70	Couler' bears S.E.
80.00	After diligent search I fail to find the cor. Set a sandstone 18x10x3 ins 12 ins in the ground for cor to secs. 13, 18, 19 and 24 marked with 3 notches on N and S edges; dug pits 18x18x12 ins in each sec. $5\frac{1}{2}$ ft dist and raised a mound of earth 2 ft high, $4\frac{1}{2}$ ft base alongside. Sand rolling; soil sandy loam 3 rd rate. No timber.

	$1^{\circ}08'$ W on a true line bet. secs 19 and 24 Va $15^{\circ}40'$ E
88.50	Top of hill bears N 30° W and S.E.; descend over broken ground

Resurvey of E. Bdy of T 17 RR 13 E. N.L.M.

40.00	finding no trace of old cor. I set a post 3x3 ins 4 ft long with marked stone 12 ins in the ground for 1/4 sec cor. marked 1/4 on W face; dug pits 18x18x12 ins N and S of post 5 1/2 ft dist. and raised a mound of earth 1 1/2 ft high 3 1/2 ft base around post.
68.40	Road to Salt Lake bears W.
69.00	Coulee bears W.
78.20	Top of shale ridge descends steep slope
80.00	here being no trace of old cor and it being impracticable to set a stone in the ground I set a sandstone 15x8x6 ins in a mound of stone 1 1/2 ft high, 2 ft base for cor to sec. 19, 24, 25 and 30 marked with 4 notches on W and 2 notches on S edge. Pits imp. Land mountainous and broken; soil shale 3rd and 4th rate.
	No timber
	Mountainous on 40.00 chs.
S 0° 8' W on a true line bet. secs 25 and 30 SA 15° 40' E	
7.70	Foot of hill; wagon road bears N 60° W.
9.20	Fence bears N 60° W enter Eli Rawdall's field
19.20	Abandoned line R.G.W.Ry and ditch on grade bears N 70° W.
21.50	Enter dense underbrush and heavy cottonwood timber.
23.00	Fence bears E and W.
37.30	Leave underbrush
39.45	Abandoned line R.G.W.Ry and ditch on grade bears S 20° W.
40.00	No trace of old cor. Set a sandstone 15x9x6 ins, 6 ins in the ground for 1/4 sec cor. marked 1/4 on W face; dug pits 18x18x12 ins N and S of stone 5 1/2 ft dist. and raised a mound of earth 1 1/2 ft high, 3 1/2 ft base alongside.
44.00	Leave river bottom ascend over broken

Resurvey of E. Bdy of T 17 R 13 E S. L. M.

	Hillside.
53.00	Top of sharp point of hill; descend. Gulch bears N.W.
63.50	Top of sharp hill, descend to river bottom
72.50	River bottom
73.60	Road bears E and W
74.00	Enter cottonwood timber and underbrush
80.00	No trace of cor. Set a sandstone 27x5x5 ins 20 ins in the ground for cor to secs 25, 30, 31 and 36, marked with 5 notches on N and 1 notch on S edge. From which A cottonwood tree 7 ins. in diam. bears N 36° E 31 lks dist. marked T 17 R 14 E D 30 B.9.
	A cottonwood tree 10 ins. in diam. bears N 86° 0' W 60 lks dist. marked T 17 R 13 E D 25 B.9.
	A cottonwood tree 7 ins. in diam. bears D 35° W 42 lks dist marked T 17 R 13 E D 36 B.9.
	A Cottonwood tree 6 ins. in diam. bears D 45° E 71 lks dist. marked T 17 R 14 E D 31 B.9.
	Land mountainous and river bottom Soil shale and alluvial, 4 th and 1 st rate Timber, cottonwood.
	S 0° 0' W on a tree line bet secs 31 and 36 Va 15° 40' E
0.80	Through heavy cottonwood timber A cottonwood tree 9 ins in diam, a live tree, marked with 2 notches on N and S sides
11.50	Leave cottonwood timber and under- brush.
13.73	Left bank of Price river set a post 3x3 ins 3 ft long with marked tree 12 ins in the ground for witness point marked W. P. on S. face; dug a pit 3x3x1 ft 8 lks of post and raised a mound of earth 2 ft high, 4 1/2 ft base around post.

Resurvey of E. Bdy. of T. 17 R. 13 E. D. M.

- 15.08 Right bank of Price river, set a post
3x3 ins. 4 ft long, with marked stone, 12 ins
in the ground for witness point, marked
W.P. on N face; dug a pit 3x3x1 ft 8 lbs
of post and raised a mound of earth
2 ft high, 4 1/2 ft base around post.
Fence bears E and W
- 19.64 Abandoned line R.G.W. Ry and ditch built
in grade bears S.E.
- 22.50 Leave bottom; ascend
- 24.10 Top of mesa 60 ft high bears W and N
- 39.50 N edge of mesa 60 ft high bears S.W.
- 40.00 Old cor. 5 lbs E which I destroy. Set a
sandstone 17x12x3 ins 12 ins in the
ground for 1/4 sec cor marked 1/4 on N
face, raised a mound of stone
1 1/2 ft high, 2 ft base along sides.
Pits imp.
- 43.20 River bottom
- 48.00 Fence bears E and W.
- 61.80 Fence bears S.E.
- 67.00 Leave river bottom ascend.
- 72.00 Wash in gulch 20 ft deep bears E
- 80.00 The cor. to Tps. 17 and 18 & Rs. 13 and 14.
E hereinbefore described.
- ^{14.0}
^{6.5}
Sand rolling and level, soil gravelly
and alluvial 3rd and 1st rate.
Heavy cottonwood timber on 11.50 chs.

May 2nd 1894

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Resurvey of Fraction of N Bdy of T 17 R 13 E P.S.W.

Having already subdivided the E 3 tiers of sections and being unable to find the cor. to secs. 4, 5, 32 and 33 on the N bdy I go to the cor to secs 6, 4, 33 and 34 on the said bdy which is a cor. previously described in my subdivisional notes of the line bet secs. 3 and 4, and run W on a random line bet. secs. 4 and 33

Va $15^{\circ} 46' E$

40.00	Set a temporary $\frac{1}{4}$ sec. cor.
70.92	Find 7 lbs D. of my line a sandstone firmly set $14 \times 11 \times 2$ ins above ground marked with 4 notches on E and 2 notches on W edge.
80.00	Set a temporary cor to secs 4, 5, 32 and 33

W on a random line bet secs 5 and 32

Va $15^{\circ} 46' E$

31.20	Find 30 lbs D. large boulder marked $\frac{1}{4}$
40.00	Set temporary $\frac{1}{4}$ sec. cor.
70.65	Find 45 lbs D. a stone firmly set in place, properly marked for cor. to secs. 5, 6, 31 and 32
80.00	Set temporary cor to secs. 5, 6, 31 and 32

W on a random line bet secs 6 and 31

Va $15^{\circ} 50' E$

31.34	Find about 75 lbs D. of my line $\frac{1}{4}$ cut in large boulder.
40.00	Set temporary $\frac{1}{4}$ sec. cor.
71.43	Find 105 lbs D. a sandstone $21 \times 15 \times 8$ ins firmly set in a mound of stone and marked with 6 grooves on N, E and S faces and C.C. on W face. for N.W. cor. of township.

Believing that this cor is the true N.W. cor. of the tip and finding that a true line run to it from the cor to secs 3, 4, 33 and 34 will be about on the same

Resurvey of fraction of N Bdy of T 17 N R 13 E D. L. M.

	course as the E half of the N bdy has been run on, I return to the cor to secs 3, 4, 33 and 34 on the N bdy previously described and run.
	189044' W on a true line bet secs 4 and 33 Va 15°46' E
9.10	ascend through heavy cedar timber Top of hill; leave cedar timber; descend over broken ground along W slope of mountain.
30.30	^{Wash m.} Bottom of cañon 200 ft deep bears S; ascend over broken ground on S slope.
40.00	Fail to find $\frac{1}{4}$ acre cor. It is impracticable to set a stone in the ground. I set a sandstone 19 x 8 x 6 ins in a mound of stone $1\frac{1}{2}$ ft high. 2 ft base for $\frac{1}{4}$ acre cor in a cut $\frac{1}{4}$ on N face. Pits imp.
43.60	Gulch bears S.E. and W
46.60	Leave same gulch bears from N
63.20	Top of hill bears N, descend
70.92	Old cor erroneously set which I destroy
80.00	Set a sandstone 17 x 12 x 4 ins 12 ins in the ground for cor to secs. 4, 5, 32 and 33 marked with 4 notches on E and 2 notches on W edge; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base along side. Pits imp. Land mountainous. Soil stony & th rate.
	Heavy cedar timber on 9.00 chs Mountainous on 80.00 chs.

189044' W on a true line bet. secs 5 and 32
Va 15°46' E

descend

19.75	Abandoned line R.L.W.R. bears S and N
20.65	Wagon road bears S.
21.40	Coule 30 ft wide 5 ft deep bears S.
25.80	Grassy trail creek (alkali water in places) bears S.
31.20	Erase $\frac{1}{4}$ cut in boulder for $\frac{1}{4}$ acre cor.
40.00	Set a sandstone 24 x 12 x 3 ins 18 ins in the

Resurvey of Fraction of N. Bdy. of T. 17 S.R. 13 E. D.L.W.

	ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp.
50.60	Ridge bears S.
64.60	Ridge 400 ft above Grassy Trail creek bears S.C.
70.65	I destroy old corner.
77.65	Wash in gulch 50 ft deep bears S.
80.00	It being impracticable to set a stone in the ground, I set a sandstone $16 \times 8 \times 6$ ins in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base for cor to secs. 5, 6, 31 and 32, marked with 5 notches on E and 1 notch on W edge; Pits imp. Land mountainous. Soil stony, 4^{th} rate. No timber.
	Mountains on 80.00 chs.

June 3rd 1894

Pursuant to my additional Special Instructions, dated March 18th 1895, and having already reestablished Clarks Valley Guide Meridian in accordance with said instructions, I go to the cor to secs 5, 6 31 and 32 previously established by myself.

There I run $089^{\circ}44'W$ on a true line bet secs 6 and 31

To $15^{\circ}50'E$

Ascend along S. slope of mountain

31.34	I erase $\frac{1}{4}$ cut on large boulder for $\frac{1}{4}$ sec cor.
40.00	It being impracticable to set a stone in the ground, I set a sandstone $19 \times 6 \times 4$ ins in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face. Pits imp.
53.60	Top of ridge bears $080^{\circ}W$; ascend along N slope of mountain through scrub cedar timber.

71.43 I destroy the instruments originally adopted by me as the N. L. cor. of the T.P. in my survey of the N. bdy. of the 9th dated June 3rd 1894.
80.97 Intersect Clarks Valley Guide Meridian

Resurvey of Fraction of N. Bdy of T 17 R 13 E. A. S. W.

20.74 acres S of cor to 9 ps 16 and T 17 R 12 E. which is a sandstone $40 \times 14 \times 5$ ins set in a mound of stone $2\frac{1}{2}$ ft high. $\frac{3}{4}$ ft base marked with 6 notches on N. & S. and Wedges.

It being impracticable to set a stone in the ground. I set a sandstone $18 \times 12 \times 10$ ins in a mound of stone $1\frac{1}{2}$ ft high, $\frac{3}{4}$ ft base for closing township cor. ^{t 16 R 17 S. R 13 E.} marked with 6 grooves on N. S. and E. faces and C.C. on W face. Pits imp. No bearing trees available.

Land mountainous; soil stony & thin. Timber scrub cedar.

Mountainous on 80.97 chs.

Apt 18th 1895

For general description see subdivision notes of this township

Frank E. Baxter

N. H. Dep. Surveyor.

List of Names.

A list of the names of the individuals employed by _____, U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the _____
Meridian, in _____, showing the respective capacities in which they acted:

Final Oath of Assistants:

We hereby certify that we assisted

, U. S. Deputy Surveyor, in surveying all

those parts or portions of the _____

Meridian, _____, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for _____

Subscribed and sworn to before me this _____ }
day of _____, 18 _____ }



Final Oath of U. S. Deputy Surveyor.

I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, the surveying manual, and the laws of the United States, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

U. S. Deputy Surveyor.

Subscribed and sworn to before me this _____
day of _____, 18_____ }



Approval.

Office of the U. S. Surveyor General,

Frank E. Carter, U. S. Surveyor General,
January 18th, 1896

The foregoing field notes of the survey of *the exterior lines of Township
17 South Range 13 East of the Salt Lake Base & Meridian
Utah Territory*

executed by *Frank E. Carter*
under his Contract No. *196*, dated *January 18th*, 1896, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Loren W. Snow

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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H. J. B.

FIELD NOTES

Survey
OF THE _____ OF

*Clark's Valley Guide Meridian through
Township 17 South*

Of the *Salt Lake* Meridian,

Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

Under his Contract No. 196, dated January 18th, 1884.

Survey commenced April 16th, 1885.

Survey completed April 17th, 1885.

Names and Duties of Assistants.

Wallace Watson	Chairman
Daniel Morris	Chairman
John Dallin	Chairman
Geo White	Chairman
Wallace Watson	Chairman
Daniel Morris	Chairman

Volume

#

R0236

INDEX DIAGRAM.
*Clark's Valley Guide Meridian
 Township 17 S., Range 12 E.*

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30	29	28	27	26	25	3
31	32	33	34	35	36	0

Meanders Page.....

Preliminary Oaths of Assistants.

WE, _____

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

-, *Chairman.*

., Chairman.

., Chainman.

—, Chainman.

We,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this _____, Axeman.
day of _____, 188 . } _____, Axeman.

Resurvey of Clark's Valley G. M. through 9 170 S. L. M.

Survey commenced Apr 16th 1895

Pursuant to additional special instructions issued to me, dated Mar 18th 1895, I set my transit over the point previously occupied by the cor. to 9th ps 17 and 18 S R 12 E

^{12 and 13 E which I erroneously destroyed during my survey}
of 9th ps 17 and 18 S R 12 E in June 1894
Hence I run N bet sec 1 and 6

Va 15° 45' E

Through dense artemesia undergrowth
29.00 Coulter in hollow bears E

0 40.24 I fall 21 lks E of 1/4 sec cor. which is a shale stone, now broken up. marked 1/4, in a mound of stones.

As the distance and falling are within allowable limits, I return to the location of the 9th ps cor. and reestablish it in its original place as follows:

Set a sandstone 24 x 10 x 6 ins 18 ins in the ground for cor to 9th ps 17 and 18 S R 12 E marked with 6 grooves on the N, S and W faces, and raised a mound of stones 1 1/2 ft high, 2 ft base alongside.

Thence I run N on a random line on Clark's Valley Guide Meridian

Va 15° 45' E

40.28 Find 1/4 sec. cor. 25 lks E of my line

80.36 Find sec. cor. 47 lks E of my line.

120.30 Find 1/4 sec cor 75 lks E of my line

160.45 Find sec cor 110 lks E of my line

200.60 Find 1/4 sec. cor. 150 lks E of my line

240.70 Find sec cor 190 lks E of my line

276.10 Find W.C. 1/4 sec cor 206 lks E of my line.

Top of cliff on right bank of Price river

I measure an offset 10.0 chs E, thence

I run N to 286.00 chs; thence W 10. chs

to my line on left side of Price river.

Thence I run N on my random line.

402.50 Remains of old sec.cor. 310 chs E of my line.

462.00 W.C. 1/4 sec. cor. cut in ledge about 4.00 chs E

Resurvey of Clark's Valley G.M. Through 9/17/0 D.L.M.

486.54 I fall 370 chs W of cor to Tps 16 and 17 S R's 12 + 13 E which is a sandstone finely set and marked as described in note furnished me by Mr. Geil.
I obliterate the 6 notches on the E edge of cut as per your instructions in attching it the cor to Tps 16 and 17 S.R. 12 E.
Having previously destroyed all the $\frac{1}{4}$ sec and sec. cor. found on the line I proceed to reestablish the same.
Apr 16th, 1895

From the cor to Tps 16 and 17 S R 12 E hereinbefore described I run.

$80^{\circ}26'W$ on a true line on the E line of Sec 1
 $15^{\circ}55'E$

- descend through scrub cedar timber
gulch 200 ft deep bears E
24.50 Rim of mountain bears E and W; descend steep slope. Leave timber.
46.54 It is impracticable to set a stone in the ground. I therefore set a quartzite stone 20x8x4 ins in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face. Bits imp.
52.60 Wash in bottom of cañon 500 ft deep bears N.E.
75.40 Wash in gulch 40 ft deep bears E
80.00 Descend steep slope.
86.54 It is impracticable to set a stone in the ground, I therefore set a limestone 22x10x8 ins in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base for cor to secs. 1 and 12 marked with 1 notch on N and 5 notches on S edge. Bits imp.

Sand mountainous, soil, stony 4th rate
scrub cedar timber on 24.50 chs.

Mountainous on 86.54 chs.

$80^{\circ}26'W$ on a true line on E line of Sec 12
 $15^{\circ}55'E$

Ascend.

Resurvey of Clark's Valley G.M. through T. 17 S. D.S.W.

5.00	Top of mountain bears N.E. and S.W. 100 ft above last sec. cor.
26.00	Begin steep descent.
38.70	Foot of steep hill 600 ft high bears E & W.
40.00	Set a sandstone 20x12x4 ins 15 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ m W face; raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside. Pits imp.
44.70	Wash 20 ft wide, 5 ft deep bears N 70° E
55.00	Coule bears E; ascend.
58.50	Ridge 50 ft high. bears S.W.; thence over S.E. slope to
63.00	Top of ledge 20 ft high bears S 50° W.
64.00	Enter river bottom and heavy cottonwood timber.
69.40	Left bank of Price river, set a sandstone 14x12x4 ins, 9 ins in the ground, for witness cor. to secs 12 and 13, marked with 2 notches on N and 4 notches on D edge, and W.C. on S.W. face; from which, A cottonwood tree 16 ins. in diam bears N 43° W, 43 lbs dist. marked T 17 R 12 E S 1/2 W.C. B.T.
	A cottonwood tree 16 ins. in diam bears S 45° W 46 lbs dist. marked T 17 R 12 E S 1/3 W.C. B.T. No other tree in limit.
	Note: The balance of this mile and the first 4400 chs. of the next mile south crosses Price river 5 times and runs over part of the high perpendicular wall of the canon. The water in the river is high at this time which makes it dangerous to cross at this point; therefore discontinued the line here.
	Land mountainous and river bottom. Soil stony and alluvial 4 th and 1 st rate.
	Heavy cottonwood timber on 5.40 chs. Mountain soil on 64.00 chs.

Resurvey of Clark's Valley G. M. Through T 17 S. S. L. N.W.

I now go to the point at 276.10 chs on my random line on top of cliff, 250 ft high, on right bank of Price river and offset 2.09 chs E to the true line.

This point is $320.00 + (80 - 69.40) = 276.10$ chs
 $= 54.50$ chs $10^{\circ} 26' W$ from the W.C. to secs 12 and 13 set on left bank of river.

Computing from the theoretical position of the cut to secs 12 and 13, this point is $10^{\circ} 26' W$

43.90 Cut a cross at exact cor. point with W.C. $\frac{1}{4}$ in
 on ledge of sandstone on cliff 250 ft high
 forming right wall of Price river canon,
 for witness cor to $\frac{1}{4}$ sec cor on E line of
 sec 13. Raised a mound of stone $1\frac{1}{2}$ ft
 high, 2 ft base, alongside.

No bearing trees available.

Thence I run $10^{\circ} 26' W$ on a true line on E
 line of sec 13

$10^{\circ} 15' 50'' E$

Through heavy scrub cedar timber

61.50 Wash in gulch 50 ft deep bears N. E.

73.50 Top of hill bears N. E. and S. W.; descend

80.00 It is impracticable to set a stone in the
 ground, I therefore set a sandstone $20 \times 10 \times 6$
 inns. in a mound of stone $1\frac{1}{2}$ ft high, 2 ft
 base, for cor to secs 13 and 24, marked
 with 3 notches on N and S edges. Pts imp.
 No bearing trees available.

Sand mountainous; soil, stony, & rat.
 Heavy scrub cedar timber on 36.10 chs.

$10^{\circ} 26' W$ on a true line on E line of sec 24
 $10^{\circ} 15' 45'' E$

Leave cedar timber

2.00 Foot of hill, thence through rock breaks.

6.70 Coule¹ 20 ft wide & ft deep bears E

12.20 Coule¹ bears N. E.

40.00 It is impracticable to set a stone in the
 ground, I therefore set a sandstone $20 \times 8 \times 4$
 inns. in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base

Resurvey of Clark's Valley G. M. Through 9.17 S. D. N.W.

	for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face. Pits imp.
45.60	Leave rock breaks enter level plateau covered with dense artemesia under growth.
68.50	Enter rock breaks, leave undergrowth
- 80.00	Set a sandstone $14 \times 10 \times 4$ ins, 9 ins in the ground for cor to secs 24 and 25, marked with 4 notches on N and 3 notches on S edge and raised a mound of stone $1\frac{1}{2}$ ft high, .2 ft base alongside. Pits imp. Land rock breaks and plateau; soil 3 to 4 in. 4th rate, stony.
	Mountainous or dense undergrowth on 80.00 chs.

S 026 W on a true line on E line of sec 25
Va $15^{\circ} 45' E$

Through rock breaks.

7.80	Ridge 75 ft high bears E and W, descend, leave rock breaks.
11.00	Foot of hill
13.40	Wash drains E
20.55	Wash drains E
32.00	Foot of hill, ascend.
36.00	Ridge 75 ft high bears N. E., enter bad land breaks.
38.00	Gulch bears W.
40.00	Set a sandstone $18 \times 12 \times 8$ ins 12 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face and raised a mound of stone $1\frac{1}{2}$ ft high, .2 ft base, alongside. Pits imp.
43.00	Coule bears N. W.
60.00	Enter level ground and dense artemesia undergrowth.
73.90	Coule bears S. E.
- 80.00	Set a sandstone $20 \times 14 \times 3$ ins 15 ins in the ground for cor to secs. 25 and 36, marked with 5 notches on N and 1 notch on S edge, and raised a mound of stone

Survey of Clark's Valley, G. M. & through 917D S. L. M.

1 $\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp.
Land mostly rock and bad sand breaks;
soil, stony and marshy 4th rate. No timber
mountainous or dense undergrowth on
80.00 chs.

10° 36' W on a line line on C line of sec 36
80 10° 45' E

- 40.00 Through dense artemesia undergrowth
Set a sandstone 24x11x3 ins 18 ins in the
ground for 1/4 sec cor., marked 1/4 on W
face; deep pits 18x18x12 ins N and S of stone
5 $\frac{1}{2}$ ft dist. and raised a mound of earth
1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base alongside.
- 80.00 The cor to Ops 17 and 18 D R 1/2 E previously
re-established by myself.
Land nearly level soil sandy loam
2nd rate.
No timber.
Dense artemesia undergrowth on 80.00 chs.

Apr 17th 1895

General Description

The township to the W is rough,
and mountainous, mostly unar-
able land of no value for agri-
cultural purposes excepting a
small portion in the D.E. cor which
is level and has good soil but no
available water. See notes of 917D
(R 1/2 E) for general description of
that township.

Frank E. Baxter,
U. S. Dep. Surveyor.

Final Oath of U. S. Deputy Surveyor.

I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 188_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, the surveying manual, and the laws of the United States, surveyed all those parts or portions of _____

..... Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Subscribed and sworn to before me this _____
day of _____, 188_____. } }

U. S. Deputy Surveyor.



Approval.

Office of the U. S. Surveyor General,

Salt Lake City Utah June 16, 1885

The foregoing field notes of the survey of ^{to} The Clark's Valley Line
Meridian through Township 17 South of the Salt
Lake Base & Meridians

executed by
Frank E. Carter
under his Contract No. 196, dated January 15th, 1884, having been critically
examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Snow
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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PAGE

No. 3. B.

FIELD NOTES

OF THE SURVEY OF

The Subdivision of Township 17 South
Range 13 East

of the Salt Lake Meridian,
Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

Under his Contract No. 196, dated January 18th, 1894Survey commenced May 24th, 1894.Survey completed Apr. 18th, 1895.

(FCG-2, 100) G-161

H	52 33-29 ✓
L	53 51
	60.07 00

Wallace Watson

Chairman

Samuel Morris

"

Edward Redmond

Axeman

Don Johnson

Flagman

Volume

#

R0236

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Meanders Page.....

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 18 . }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this , Axeman.
day of , 18 . } , Axeman.

Subdivision of T. 17 S. R. 13 E. I. L. M.

Survey commenced May 24th 1894
Having previously resurveyed the
East bdy. of the township and found
the course of same to be N $0^{\circ}08' E$, I
commenced at the cor. to secs. 35 and
36 on the S bdy. of the township previous-
ly re-established by me as a contingent
to my contract and run.

N $0^{\circ}07' E$ bet secs. 35 and 36

VA $15^{\circ}40' E$

Over broken ground sloping to E

2.00	Top of small ridge
9.50	Wash in Gulch 30 ft deep bears E
12.70	Wash in Gulch 30 ft deep bears E
16.00	Stony ridge descended
20.00	Set a sandstone 18x7x4 ins. 12 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; raised a mound of stone $\frac{1}{2}$ ft high 2 ft base alongside. Pits impracticable
40.50	Top of sharp stony ridge bears E and W; descended
51.90	Wash in bottom of canon 100 ft deep bears E and W
65.00	Top of hill descended steep slope.
76.80	Wash in canon 300 ft deep bears E, ascended steep slope
80.00	It is impractical to set stone in ground. I therefore set a sandstone 14x7x3 ins for cor. to secs. 25, 26, 35 and 36 marked with 1 notch on S and 1 notch on E edge. raised a mound of stone $\frac{1}{2}$ ft high, 2 ft base around stone. Pits imp.
	Land mountainous, soil stony, 4 th rate, no timber.
	Mountainous on 80 chs.

D $89^{\circ}01' E$ on a random line bet. secs. 25 and 36

VA $15^{\circ}40' E$

40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.20	Intersect E bdy. of 7 $\frac{1}{2}$ Lks. N $\frac{1}{2}$ cor to secs. 25 and 30, 31 and 36 as hereinbefore described Hence draw N $89^{\circ}00' W$ as true line bet.

Sub-division of Tp 17 P R 13 E D S M

secs. 25 and 36

N. 15° 40' E

Through heavy cottonwood timber and scrub brush

3.70 A cottonwood tree 6 ins. in diam., a live tree, marked with 2 notches on E and W sides

7.20 Leave timber.

9.96 Ditch bears N. 65° E

12.20 Center of ditch bears N. 10° W.

14.65 Abandoned live R. G. W. Rig and ditch built in grade bears N. 15° E

15.00 Left bank of Price river set a post 3x3 ins, 4 ft long, marked W.P. on W face, for witness point with marked stone 12 ins in ground; dug a pit 3x3x1 ft 8 lugs E of post and raised a mound of earth 2 ft high 1½ ft base around post.

22.45 Right bank of Price river; set a post 3x3 ins 4 ft long with marked stone 12 ins in ground for witness point, marked W.P. on E face, dug a pit 3x3x1 ft 8 lugs W of post and raised a mound of earth 2 ft high 4½ ft base around post.

22.60 Enter dense undergrowth.

22.62 J.E. Randalls house bears N. 38° 30' W. 250 chs dist.

22.71 A cottonwood tree 11 ins in diam., a live tree marked with 2 notches on E and W sides

33.95 Leave river bottoms and dense undergrowth

35.50 Top of hill bears S and W.

40.10 Set a sandstone 18x8x4 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; dug pits 18x18x12 ins. E and W of stone. 5½ ft dist and raised a mound of earth 1½ ft high, 3½ ft base alongside.

47.90 Wash in mouth of canon bears N. E.

51.50 Foot of hill, ascend over broken ground

66.30 Foot of hill 200 ft high

73.00 Head of wash in gulch bears N. E.

80.20 The cor to secs. 25, 26, 35 and 36.

~~Land, mountainous and river bottom, soil sandy loam 1st rate and clayey 4th rate.~~

Heavy cottonwood timber on 720 chs

Dense undergrowth on 1150 chs

Mountainous on 4625 chs

Subdivision Tp. 17 S. R. 13 E. A. L. rec.

	N $0^{\circ}07'$ E bet. secs 25 and 26 Va $15^{\circ}40'$ E.
5.36	Ascend over steep ground Top of high mountain, descend over steep rocky ground
19.80	Wash in canon bears E thence along bottom of canon
31.00	Leave bottom of canon, ascend.
35.50	Ridge bears N.E.
40.00	Set a limestone $15 \times 8 \times 4$ ins 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face, raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp.
42.40	Edge of hill descend over broken ground.
50.50	Coule \acute{e} 6 ft deep bears N.E.
55.00	Coule \acute{e} bears E.
68.00	Wash in Gulch 30 ft deep bears N.E. and S.W.
75.30	River bottom enter dense willow underbrush
78.00	Mouth of wash draining E.
80.00	Set a sandstone $16 \times 6 \times 6$ ins. 10 ins. in the ground for cor to secs 23, 24, 25 and 26, marked with 2 notches on S and 1 notch on E edge. From which.
	A cottonwood tree 14 ins. in diam. bears 164° $20^{\circ}W$, 248 ft dist. marked T 17 S R 13 E 006 B. 9.
	A cottonwood tree 7 ins. in diam bears $16^{\circ}45'W$ 129 ft dist marked T 17 S R 13 E S 23 B. 9. No other trees in limit. dug pits $18 \times 18 \times 12$ ins in secs. 24 and 25, $5\frac{1}{2}$ ft dist and raised a mound of earth $1\frac{1}{2}$ ft high $2\frac{1}{2}$ ft base alongside
	Sand mountainous, soil stony. 3 rd and 4 th rate except river bottom sandy loam 1 st rate.
	Dense willow underbrush on 4.70 chs.
	Mountainous on 75.30 chs.

S $89^{\circ}00'$ E on a random line bet secs 24 and 25
Va $15^{\circ}40'$ E

40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.38	Intersect E bdy of Tp. 25 44 ft N of cor to secs 19, 24, 25 and 30

Subdivision of Tp. 17, S. R. 13 E., D. L. M.

	9 hence I run N. $88^{\circ}49'W$ on a true line bet secs. 24 and 25.
	To $15^{\circ}40'E$
	Descent over S slope of mountain.
9.00	Bottom
10.50	Wagon road bears S.E. and N.W.
10.55	Gence bears S.E.
22.00	Gence bears S.
28.00	Ascend
30.00	Sharp ridge 40 ft high bears N and S J. N. Coleman's house bears $156^{\circ}50'W$ Eli Randall's house bears $15^{\circ}40'E$
31.80	Bottom
35.50	Ascend
40.19	Set a sandstone 18x 6 x 5 ins., 12 ins in ground for 1/4 sec. cor., marked 1/4 on N face; dug pit 18x18x12 ins E and W of stone, 5 1/2 ft dist., and raised a mound of earth 1/2 ft high 3 1/2 ft base alongside. J. N. Coleman's house bears $132^{\circ}30'W$ Eli Randall's house bears $128^{\circ}00'E$
54.50	Top of hill
57.40	Wash in gulch 75 ft deep, bears S.
63.80	Top of hill 150 ft high
66.38	River bottom; ditch bears S. Enter dense under- growth.
68.90	Ditch bears S.E., enter heavy cottonwood timber
71.90	Abandoned line R.G.W.R. bears N.W.
77.35	Left bank Price river, set a post 3x3 ins. 4 ft long, 24 ins. in the ground for witness point marked W.P. on W face, from which A cottonwood tree 4 ins. in diam. marked with a blaze and notch bears $021^{\circ}W$ 12 ft dist.
	A cottonwood tree 5 ins. in diam. marked with blaze and notch bears $105^{\circ}E$ 5.5 ft dist.
78.60	Right bank of Price river, set a post 3x3 ins. 4 ft long, with marked stone, 12 ins in ground, for witness point, marked W.P. on on E face; dug a pit 3x3x1 ft 8 ins W of

Subdivision of 9.17 A.R. 13 E. P.L.M.

- | | |
|---------------------------------|--|
| | post and raised a mound of earth 2 ft
high 4½ ft base around post.
The cor. to secs. 23, 24, 25 and 26
Land mountainous and river bottom; soil
stony and sandy loam; 3 rd and 1 st rate.
Dense undergrowth or heavy timber on 14.00 chs
mountainous on 47.38 chs. |
| 80.38
<i>61.38
19.60</i> | <i>N 0°07' E bet secs 2 3 and 2 4
Va. 15°40' E</i> |
| 4.16 | Through dense willow underbrush
Right bank Price river set a post 3x3 ins, 4 ft
long, 2 4 ins. in the ground for witness point
marked W.P. on N face, from which
A cottonwood tree 7 ins. in diam., marked
with blaze and notch bears N 50° E 49 lfts
dist.
A cottonwood tree 5 ins in diam., marked
with a blaze and notch bears N 46° W 37
lfts dist. |
| 5.84 | Left bank of Price river, set a post 3x3 ins
4 ft long, with marked stone 12 ins in ground
for witness point, marked W.P. on S face;
dug a pit 3x3x1 ft 8 lfts N of post and raised
a mound of earth 2 ft high 4½ ft base
around post. |
| 8.26 | A cottonwood tree 7 ins in diam., a live
tree, marked with 2 notches on N and S
sides... |
| 10.24 | Abandoned line R.G.W.Ry bears N 75° W |
| 19.74 | Leave dense underbrush, ditch bears E;
ascend. |
| 23.70 | Rocky ridge 100 ft high bears E
J. Coleman's house bears N 79° W 30 chs
dist. |
| 34.20 | Ditch bears S.W. |
| 40.00 | Set a sandstone 18x7x3 ins 12 ins in
ground for 1/4 sec. cor. marked 1/4 on
W face; raised a mound of stone 1½ ft
high, 2 ft base alongside Pitts unp. |
| 41.05 | Ditch 2 ft wide bears E and W |

Subdivision of T. 17 S. R. 10 E. S. L. M.

42.60	abandoned line R. G. W. Ry bears N 25° E
47.00	Foot of hill bears N. E. and S.
50.00	Top of hill 75 ft high, descend.
53.90	Ditch 4 ft wide bears W.
55.20	Center of ravine 200 ft wide, 75 ft deep bears E and W.
56.00	Road bears E and W
57.10	Abandoned line R. G. W. Ry and ditch dug in grade bears W
65.20	Top of hill
68.60	Wagon road and coulees' bears E and W in ravine 200 ft wide 75 ft deep.
72.25	Ledge of rock
74.30	Gulch bears N 10° W
80.00	Set a sandstone 16x10x4 ins 10 ins. in ground for cor. to secs. 13, 14, 23 and 24, marked with 3 notches on S and 1 notch on E edges, and raised a mound of stone 1½ ft high 2 ft base alongside. Pits up.
	Land mountainous and river bottom; soil, stony and sandy loam, 4 times 1st rate.
	Dense undergrowth on 19.74 chs.
	Mountainous on 60.26 chs.

N. 88° 49' E on a random line bet.

secs. 13 and 24

To 15° 40' E

40.00	Set a temporary ¼ sec. cor.
80.38	Intersect E bdy of 7 p. 21 lots 1 of cor to secs 13, 18, 19 and 24
	Hence I run N 88° 58' W on a true line bet. secs. 13 and 24

To 15° 40' E

As preceding

23.20	Coulee 30 ft wide, 30 ft deep bears S. W.
25.00	Coulee 40 ft wide 30 ft deep bears S.
33.00	Top of hill, descend to
40.19	Set a sandstone 18x7x4 ins. 12 ins in the ground for ¼ sec. cor., marked ¼ on N face; dug pits 18x18x12 ins E and W of stone 5½ ft dist and raised a mound of earth

Subdivisions of 9 1/2 A. R 13 E., D.L. M.

	1 1/2 ft high h, 3 1/2 ft base alongside Coulees bears N.W.
40.70	Top of ridge bears S.E.
45.50	Foot of ridge
50.00	Coulees bears N and S.
60.50	Wagon road bears 120° E
61.30	Wagon road bears S.W.
65.50	Coulees 8 ft wide 4 ft deep bears S.W., ascend
69.50	Top of stony ridge
79.00	Top of cor. to secs. 13, 14, 23 and 24.
80.38	Land mountainous, soil stony and sandy 3 rd and 4 th rate. No timber Mountainous on 80.38 chs.

N $0^{\circ}07'$ E bet secs 13 and 14

Va $15^{\circ}40'$ E

7.30	Top of hill
26.70	Wash in gulch 25 ft deep 40 ft wide bears E
32.50	Wash in gulch 40 ft wide 50 ft deep bears S.E.
40.00	Set a sandstone 16x6x6 ins. 10 ins in the ground for 1/4 sec. cor., marked 1/4 on W face; raised a mound of stone 1 1/2 ft high 2 ft base alongside. Pits up.
42.00	Gulch 30 ft deep bears E
52.60	Road bears S.E.
57.30	Road bears 080° E
62.00	Along steep hillside sloping E
80.00	Set a sandstone 10x12x4 ins 10 ins in the ground, for cor to secs. 11, 12, 13 and 14 marked with 4 notches on S and 1 notch on E edge; dug pits 18x18x12 ins in each sec. 5 1/2 ft dist. and raised a mound of earth 2 ft high h, 4 1/2 ft base along- side. Land mountainous sloping to E and S; soil stony and sandy 3 rd rate. No timber. Mountainous on 80.00 chs.

S $88^{\circ}58'$ E on a random line bet secs 12 & 13

Va $15^{\circ}35'$ E

40.00	Set a temporary 1/4 sec. cor.
80.44	Intersect E. bdy of 7 p. 16 lots S of cor to

Sect. 13 - 14

Subdivision of T 17 S. R 13 E. S. L. M.

secs 7, 12, 13 and 18 herein before described
Thence I run N $89^{\circ} 05' W$ on a true line
bet secs 12 and 13

Va $15^{\circ} 35' E$

Ascend gradually

- 29.00 Top of mesa, descend along S side of gulch
It is impracticable to set stone in ground. I
therefore set a sandstone 16x10x4 ins for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face; raised
a mound of stone $1\frac{1}{2}$ ft high 2 ft base
around stone. Pits imp.
- 59.90 Coulee 12 ft wide 4 ft deep bears S.W.
Foot of hill ascend.
- 62.50 Top of hill 150 ft high bears N.W.
Foot of hill ascend
- 67.60 Coulee 12 ft wide 4 ft deep bears S.W.
Foot of hill ascend
- 78.50 Coulee 12 ft wide 4 ft deep bears S.W.
Foot of hill ascend
- 80.44 Coulee 12 ft wide 4 ft deep bears S.W.
Sand mountainous, soil stony and sandy
 3^{rd} and 4th rate. No timber
Mountainous on 80.44 chs.

N $0^{\circ} 07' E$ bet secs 11 and 12

Va $15^{\circ} 40' E$

- 4.20 Coulee 30 ft wide bears S.E.; ascend.
- 8.20 Coulee bears S.E.
- 30.80 Begin abrupt ascent.
- 35.60 Top of hill 150 ft high
- 40.00 Set a sandstone 16x7x4 ins 10 ins in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face;
raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft
base along side. Pits imp.
- 51.50 Wash in gulch bears E
- 64.70 Wash in gulch 40 ft wide 10 ft deep bears E
- 80.00 Set a sandstone 18x9x5 ins 12 ins in the
ground for cor. to secs. 1, 2, 11 and 12 marked
with 5 notches on N and 1 notch on E edge;
dug pits 18x18x12 ins in each sec., $5\frac{1}{2}$ ft
dist and raised a mound of earth 2 ft
high, $4\frac{1}{2}$ ft base along side.
- Sand mountainous; soil stony 4th rate.
No timber
- Mountainous on 80.00 chs.

Subdivision of T 17 S R 13 E. S. d. M.

$089^{\circ}05' E$ on a random line bet. secs 1 and 12
 $Na 15^{\circ}40' E$

- 40.00 Set a temporary $\frac{1}{4}$ sec. cor.
 80.22 Intersect E bdy of township 20th line W of cor
 to secs 1, 6, 7 and 12 herein before described.
 Hence I run $N89^{\circ}05' W$ on a true line bet. secs.
 1 and 12
 $Na 15^{\circ}40' E$
 Through dense artemesia undergrowth
 Wash in gulch bears S
 Wash in gulch 10 ft deep bears N.
 Coulee 20 ft wide, 20 ft deep bears N.E. and W
 Leave same coulee bears N. W.
 40.11 Set a sandstone 13x9x6 ins, 9 ins in the ground
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face, raised
 a mound of stone $1\frac{1}{2}$ ft high. $\frac{1}{2}$ ft base
 alongside. Pits imp.
 Coulee 20 ft wide, 20 ft deep bears S
 Coulee 8 ft wide, 4 ft deep bears S.
 Coulee 8 ft wide, 4 ft deep bears S.E.
 Coulee bears S. E.
 -80.22 The cor to secs. 1, 2, 11 and 12.
 Land rolling, soil sandy and shale 3" rate.
 No timber.
 Dense artemesia undergrowth on 80.22 chs.

$N007' E$ on a random line bet. secs 1 and 2
 $Na 15^{\circ}40' E$

- 40.00 Set a temporary $\frac{1}{4}$ sec. cor.
 80.94 Intersect N bdy of Tp. 17th line W of cor to secs.
 1, 2, 35 and 36 which is a sandstone 5x8x6 ins
 above ground properly marked.
 Hence I run $10^{\circ}4' W$ on a true line bet.
 secs 1 and 2
 $Na 15^{\circ}40' E$

Through dense artemesia undergrowth
 Coulee bears S. E.
 Coulee bears S. E.
 24.47 Set a sandstone 18x16x10 ins 12 ins in the
 ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W
 face; dug pit 18x18x12 ins. N and S of

Subdivision of 9 1/4 S. R 13 E. A.D.C. No.

	stone 5 1/2 ft. diam. and raises a mound of earth 1 1/2 ft. high 3 1/2 ft. base alongside. Present track R. G. W. Ry bears N.E. and N.W.
42.44	Coulee bears S.E.
49.20	Coulee 25 ft. deep bears S.E.
57.10	Coulee 25 ft. deep bears S.
72.40	Coulee 10 ft. wide 4 ft. deep bears E.
80.00	The cor to secs 12, 14 and 12.
80.94	Land hilly and rolling; soil sandy 3rd rate. No timber.
	Dense artemesia undergrowth on 80.94 chs.

May 24th, 1894

Obs on Polaris in camp which is S 18° W 15.00 chs from the 1/4 sec. cor. bet secs 24 and 25

Watch 21 minutes faster than mean local time.

Watch time of obs. May 24th 9:03 P.M.
sub 21^m = 8:42 P.M. mean local time
or local astronomical mean time of
obs = May 23rd 32^h 42^m
U. C. Polaris May 15th 21^h 41^m
" " " 23 sub 31.4^m

Local ast. mean time U.C. 21^h 10.4^m

which taken from time of obs is
 $32^h 42^m - 21^h 10.4^m = 11^h 31.6^m$ hour angle of
Polaris.

Az of Polaris Lat 39° = 10° W; I divide a stalk on line 3 chs. N and at 70.21. May 25th I find the magnetic bearing of my line so established to be N 15° 54' W

North end of needle 15° 54' E

Azimuth of Polaris 10° W
15° 44' E

The mean declination is therefore 15° 41' E.

I begin on N bdy of 9th at the cor to secs. 2, 3, 34 and 35 which is a trachyte stone 14x14x4 ins firmly set in a mound of stone and properly marked with 2 notches on E and 4 notches on W edge.

Hence I run N 0° 7' E bet. secs. 34 and 35

Subdivision of T. 17 S. R. 13 E. S. D. M.

Va. $15^{\circ}40' E$

17.00	Coulee bears S.E.
27.40	Top of ridge descends 300 ft to
37.00	Wash in cañon bears E
40.00	It is impracticable to set stone in ground I therefore set a sandstone 20x15x5 ins for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; raise a mound of stone $1\frac{1}{2}$ ft high 3 ft base around stone. Pits imp.
43.00	Wash in gulch 100 ft deep bears S.E.
47.20	Top of rocky ridge bears N $80^{\circ} E$
57.00	Wash in gulch 100 ft deep bears E
68.50	Head of gulch bears E
74.00	Top of hill, descend to.
80.00	It is impracticable to set stone in ground, I therefore set a sandstone 14x8x6 in a mound of stone $1\frac{1}{2}$ ft high 2 ft base for cor to secs 26, 27, 34 and 35, marked with 1 notch on S and 2 notches on E edge. Pits impracticable. Land mountainous; soil stony & rate. No timber.
	Mountains on sec 80.00 chs.

I $89^{\circ}0' E$ on a random line bet secs 26 and 35

Va $15^{\circ}40' E$

40.00	Set a temporary $\frac{1}{4}$ sec cor.
80.10	Intersect the cor to secs 25 26 35 and 36. Thence I run N $89^{\circ}0' W$ on a true line bet secs. 26 and 35.

Va $15^{\circ}40' E$

Over broken ground, ascends along N side of
deep cañon

5.00	Ledge of rock bears N.E. and S.W.
40.05	It is impracticable to set stone in ground, I therefore set a sandstone 22x14x5 ins. in a mound of stone $1\frac{1}{2}$ ft high 2 ft base for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face. Pits imp.
40.50	Low ridge cross over to N side of hill.
46.60	Wash in stony gulch 100 ft wide bears N.E. and W.
55.50	Point of stony ridge bears S $80^{\circ} E$

Sub-division of T. 17 S. R. 13 E. Ad. M.

57.00	Wash in small ravine bears N.E.
62.00	Stony ridge
68.00	Head of gulch bears N
80.10	The cor to secs. 26, 27 34 and 35. Land mountainous; soil stony & rate a few scattering cedars on line. Mountainous on 80.10 chs.
	N 0°0' E bet. secs 26 and 27 Va 15°40' E
4.00	Ledge of rock descends into canon
14.70	Wash in canon 100 ft deep bears N.E.
17.60	Stony ridge bears W.
24.00	Wash in canon 100 ft wide bears E ascend
40.00	It is impracticable to set stone in ground, I therefore set a sandstone 14x10x6 ins in a mound of stone 1½ ft high 3 ft base, for 1/4 sec. cor., marked ¼ on W face. Pits imp.
45.80	Ridge 500 ft above bottom of canon
66.50	Wash in deep canon bears E; ascend over steep ground 400 ft high to.
80.00	It is impracticable to set stone in ground, I therefore set a sandstone 16x6x6 ins in a mound of stone 1½ ft high 2 ft base for cor to secs. 22, 23, 26 and 27, marked with 9 notches on S, and 2 notches on N edge. Pits imp.
	Land mountainous, soil stony & rate. No timber. Mountainous on 80.00 chs.
	S 84°0' E on a random line bet. secs. 23 and 26 Va 15°40' E
40.00	Set a temporary 1/4 sec. cor.
80.16	Intersect N and S line 16 1/2 Ms. S of cor to secs. 23, 24, 25 and 26. Hence I run N 84°0' W on a true line bet. secs 23 and 26
	Va 15°40' E
	Through dense willow underbrush

Subdivision of T 17 S. R 3 E. S.D.M.

6.50	Bluff 75 ft high ascent; leave underbrush set a sandstone 20x10x4 ins. 15 ins in ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; dug pit 18x18x12 ins E and W of stone 5 $\frac{1}{2}$ ft dist and raised a mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base alongside.
49.19	Head of gulch bears S.E.
67.19	Head of gulch bears S.E.
-80.16	From cor to secs. 22, 23, 26 and 27 Land mountainous and river bottom; soil stony, 4 th rate and sandy loam, 1 st rate. Dense willow undergrowth on 6.50 chs. Mountainous on 73.66 chs.

N 0° 57' E bet secs 22 and 23

to 15° 40' E

1.30	Top of ridge descended
11.40	Ravine 60 ft wide 25 ft deep, bears E.
20.00	Descended over steep ground
29.44	Right bank Price river set a post 3x3 ins 4 ft long with marked stone 12 ins. in the ground for witness point, marked W P on N face; dug a pit 3x3x1 ft 8 lls N of post and raised a mound of earth 2 ft high, 4 $\frac{1}{2}$ ft base around post.
31.24	I set my instrument over this post and set a flag on opposite bank of river and a second one on point of cliff 100 ft high in bend of river, ^{on line} , and measure a base N 89° 53' W 2.00 chs long. From W end of this base the flag on opposite bank bears N 48° 07' E. Therefore distance across river is cot 48° 2' = .90 x 2 = 1.80 chs. 29.44 + 1.80 = 31.24 chs.
	Left bank of Price river set a post 3x3 ins 4 ft long, with marked stone, 12 ins in the ground, for witness point, marked W.P. on N face; dug a pit 3x3x1 ft 8 lls N of post and raised a mound of earth 2 ft high, 4 $\frac{1}{2}$ ft base around post.

The bearing to flag on cliff is N 10° 41' E;
therefore distance = cot. 10° 34' x 2 = 5.36 x 2

Subdivision of T. 17 R. 13 E. S. L. M.

- equals $10.72 \text{ chs} + 29.44 = 40.16 \text{ chs}$. I measure
 $0^{\circ} 0' W$ 16 chs to
- 40.00 It is impracticable to set stone in ground
 therefore set a sandstone 18x9x4 ins. in a
 mound of stone 1½ ft high 2 ft base for
 $\frac{1}{4}$ sec. cor. marked ¼ on W face. Bits imp.
 I now set instrument on line N of $\frac{1}{4}$ sec
 cor and lay off a base N 89° 53' W, 3.00 chs; the
 bearing to $\frac{1}{4}$ sec cor is N 10° 0' E; the distance
 is cot 10° 0' x 3 = 5.595 x 3 = 16.78 chs.
 Instrument on line at 56.78 chs I now
 measure back 11.58 chs. (by stadia across
 river) to
- 45.20 Left bank of Price river, set a post 3x3 ins
 4 ft long with marked stone 12 ins in the
 ground for witness point marked W.P.
 on N face; dug a pit 3x3x1 ft 8 chs N of
 post and raised a mound of earth 2 ft.
 high, 4½ ft base around post.
- 47.54 Right bank of Price river; set a post
 3x3 ins. 4 ft long with marked stone 12 ins
 in the ground for witness point, marked
 W.P. on S face; dug a pit 3x3x1 ft 8 chs
 N of post and raised a mound of earth
 2 ft high, 4½ ft base around post.
- 53.30 Ledge of rock 75 ft high.
- 62.30 Canon bears E
- 69.75 Top of hill descended 100 ft to
- 72.41 Right bank of Price river, set a post 4x4 ins
 5 ft long 2 ft in the ground for witness point
 marked W.P. on N face, from which
 1 cottonwood tree 1.3 ins. in diam. marked
 with blaze and notch bears N 86° 30' W
 120 chs dist.
- 1 cottonwood tree 24 ins in diam. marked
 with blaze and notch bears N 83° 19' 30" chs
 dist.
- 73.60 Left bank Price river, set a post 3x3 ins
 4 ft long, with marked stone 12 ins in the
 ground for a witness point marked
 W.P. on S face; dug a pit 3x3x1 ft 8 chs N

Subdivision of T17 S R 13 E J. S. M.

	of post and raised a mound of earth 2 ft high $4\frac{1}{2}$ ft base around post.
76.85	Abandoned line R.G.W.R., bears E and W; ascend It is impracticable to set a stone in ground I therefore set a sandstone 16x14x4 ins in a mound of stone $1\frac{1}{2}$ ft high 3 ft base for the cor. to secs 14, 15, 22 and 23, marked with 3 notches on S, and 2 notches on E edge. Pits imp.
- 80.00	Land mountainous, soil stony 4 th rate; a few cottonwood trees along river Mountainous on 80.00 chs.
	$\nearrow 89^{\circ}08' E$ on a random line bet. secs 14 and 23 $\searrow 15^{\circ}40' E$
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.41	Intersect N and S line 2 chs S of cor to secs 13, 14, 23 and 24. Thence I run N $89^{\circ}09' W$ on a true line bet secs 14 and 23 $\searrow 15^{\circ}35' E$
3.00	Wash in gulch bears S.E.
23.40	Top of mountain 150 ft above cor.; descend
40.20	Set a sandstone 16x12x5 ins 10 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on NW face; raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside. Pits imp.
43.80	Couleis 30 ft wide 8 ft deep in mouth of canyon bearing N 30 W
63.80	Wash in mouth of canyon bearing N.
66.40	River bottom ascend.
- 80.41	The cor to secs. 14, 15, 22 and 23. Land mountainous, soil stony 4 th rate. No timber. Mountainous on 80.41 chs.
	$\nearrow 0^{\circ}7' E$ bet secs. 14 and 15 $\searrow 15^{\circ}40' E$
	Ascend
17.35	Head of gulch bears E
26.30	Point of ridge bears N.W.

Subdivision of 917 S R 13 E S.L. M.

39.80	Wash in gulch 200 ft deep bears S.E.
40.00	Set a sandstone 15x9x4 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base along side. Pits imp.
56.35	Wash in gulch 100 ft deep bears S.E.
67.30	Top of mountain 300 ft above sec. cor.
79.50	Wash in gulch 100 ft deep bears N 80° E
80.00	It is impracticable to set stone in ground I therefore set a sandstone 22x8x5 ins in a mound of stone $1\frac{1}{2}$ ft high, 3 ft base for the cor. to secs. 10, 11, 14 and 15, marked with 4 notches on S and 2 notches on E edge. Pits imp.
	Land mountainous; soil stony 4 th rate. No timber.
	Mountainous on 80.00 chs.
	 N $89^{\circ} 0' 9''$ E on a random line bet. secs 11 and 14 Ra $15^{\circ} 40'$ E
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.17	Intersect N and S line 6 cells S of cor to secs. 11, 12, 13 and 14.
	Thence down, N $89^{\circ} 1' 2''$ W on a true line bet. secs 11 and 14 Ra $15^{\circ} 40'$ E
6.85	Top of mesa 30 ft high
15.80	Salt Lake wagon road bears N.W.
36.00	Top of hill, descend
40.08	It is impracticable to set stone in ground I therefore set a sandstone 16x9x6 ins in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base for $\frac{1}{4}$ sec cor., marked $\frac{1}{4}$ on N face. Pits imp.
42.45	Wash in bottom of canon 100 ft deep bears S
60.57	Stony ridge bears Q.W.
79.60	Wash in gulch bears N.E.
80.17	The cor to secs. 10, 11, 14 and 15 Land mountainous; soil stony 4 th rate. No timber. Mountainous on 80.17 chs.

Subdivision of 9.17 D.R. 13 E. D.L.W.

N $0^{\circ}07'$ E bet. secs. 10 and 11

Va $15^{\circ}40'$ E

- 1.00 Ridge bears N.E.
 6.00 Wash in gulch 100 ft deep bears E
 10.20 Ridge bears E and W.
 27.30 Wash in canon 100 ft deep bears E
 31.65 Ledge of rock descend to
 39.50 Wash in canon 50 ft deep bears S.E.
 40.00 It is impracticable to set stone in ground
 I therefore set a sandstone 16x6x5 ins in a
 mound of stone $1\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$
 sec. cor., marked $\frac{1}{4}$ on W face. Pits imp.
 51.00 Top of hill descend to
 80.00 Set a sandstone 16x12x6 ins 11 ins in the
 ground for cor. to secs. 2, 3, 10 and 11, marked
 with 5 notches on S and 2 notches on E
 edge. Raised a mound of stone $1\frac{1}{2}$ ft high
 2 ft base alongside. Pits imp.
 Land mountainous, soil stony. 3rd rate.
 No timber.
 Mountainous on 80.00 chs.

N $89^{\circ}13'$ E on a random line bet secs. 2 and 11

Va $15^{\circ}40'$ E

- 40.00 Set temporary $\frac{1}{4}$ sec cor.
 80.12 Intersect N and S line & 110 ft of cor to secs.
 1, 2, 11 and 12.
 Then descend N $89^{\circ}13'$ W on a true line bet
 secs 2 and 11

Va $15^{\circ}40'$ E

Ascend through dense artemesia under
 growth

- 32.10 Top of ridge 150 ft above cor.; descend steep
 broken slope.
 40.06 It is impracticable to set stone in ground
 I therefore set a sandstone 24x6x3 ins in a
 mound of stone $1\frac{1}{2}$ ft high 2 ft base, for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face. Pits imp.
 descend.

52.60 Coules' bears S.W.

56.80 Coules' 20 ft wide 6 ft deep bears from N to W

Subdivision of 9170 R 13 E S. L. M.

59.90	Leave couleis bears S. E.
69.12	Couleis 12 ft wide, 6 ft deep bears S. E.
72.30	Road bears N. W.
80.12	9° Le cor. to secs. 2, 3, 10 and 11. Sand mountainous and broken; soil sandy and gravelly 3 rd rate Dense artemesia undergrowth on 80.12 chs Mountainous on 40.00 chs.
	$N^{\circ}0^{\prime}E$ on a random line bet secs 2 and 3 Va $15^{\circ}46'E$
40.00	Set temporary $\frac{1}{4}$ sec. cor.
79.62	Intersect N bdy of township 37 416 W of cor to secs. 2, 3, 34 and 35 which is a sandstone 14 x 12 x 4 ins above ground marked with 2 notches on E, and 4 notches on W edge. Hence $S^{\circ}2^{\prime}3'W$ on a tree line bet sec 2 and 3 Va $15^{\circ}46'E$
	Through dense artemesia undergrowth descend.
16.72	Present track R. G. W. Ry bears E and W
38.22	Top of mesa 60 ft high; descend.
39.62	It is impracticable to set stone in ground I therefore set a sandstone 16 x 12 x 4 ins in a mound of stones 1 $\frac{1}{2}$ ft high 2 ft base for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face. Pilings up.
45.40	Couleis 6 ft wide 3 ft deep bears S. W.
50.20	Couleis 2 ft wide 3 ft deep bears S. W.
58.20	Salt Lake wagon road bears N 25 W
79.62	The cor. to secs. 2, 3, 10 and 11. Sand broken; soil sandy loam 2 nd rate No timber. Dense artemesia undergrowth on 79.62 chs.
	May 25 th 1894
	From the N bdy of township at the cor to, secs. 3, 4, 33 and 34, which is a sandstone firmly set 8 x 8 x 4 ins above ground marked with three notches on E and W edges. From $N^{\circ}0^{\prime}6'E$ bet secs. 33 and 34

Subdivision of T. 17 S. R. 13 E. D. C. W.

Va $15^{\circ}30' E$

- 110 Ledge of rock
 3.20 Wash in gulch bears E
 9.40 Ledge of rock, descends steep slope.
 16.00 300 ft below last point
 39.60 Couleⁱ 8 ft wide 4 ft deep drains N.W.
 40.00 Set a sandstone 22x14x3 ins. 16 ins in the
 ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W
 face, dug pits 18x18x12 ins. Hand & stone
 5 $\frac{1}{2}$ ft deep and raised a mound of earth
 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base alongside.
 42.50 Bend in couleⁱ N $15^{\circ}W$ and S $15^{\circ}W$
 74.50 Couleⁱ 20 ft wide, 4 ft deep bears N.E.
 79.90 Couleⁱ bears W 3 chs., then N.E.
 80.00 Set a sandstone 20x10x4 ins, 15 ins in the
 ground for cor. to secs. 27, 28, 33 and 34
 marked with 1 notch on S, and 3 notches
 on E edge; raised a mound of stone
 1 $\frac{1}{2}$ ft high h, 2 ft base alongside. Pits imp.
 Land mountainous; soil sandy and stony
 3rd and 4th rate. No timber
 Mountainous on 80.00 chs.

N $89^{\circ}01' E$ on a random line bet. secs. 27 and 34

Va $15^{\circ}40' E$

- 40.00 Set a temporary $\frac{1}{4}$ sec. cor.
 80.16 Intersect N and S line 19 lks N of cor to
 secs. 26, 27, 34 and 35
 Thence I run, N $88^{\circ}53' W$ on a line line
 bet. secs. 27 and 34

Va $15^{\circ}40' E$

- 1.90 Ledge of rock descends over rough ground
 7.70 Ledge 25 ft high
 12.00 Wash in canon bears N.E. 150 ft below cor.
 26.26 Top of high ledge
 40.08 It is impracticable to set stone in ground
 I therefore set a sandstone 17x9x4 ins in a
 mound of stone 1 $\frac{1}{2}$ ft high. 2 ft base
 for $\frac{1}{4}$ sec cor marked $\frac{1}{4}$ on W face, Pits imp.
 46.34 Point of rocks
 62.16 Top of cliff descends steep slope

Subdivision of T17 R13 E P.S.M.

7.10	Foot of steep hill, descend over broken ground to
8.016	The cor to secs 27, 28, 33 and 34, 400 ft below $\frac{1}{4}$ sec. cor. Land mountainous; soil stony & poor, a few cedar trees on W $\frac{1}{4}$ of line. Mountainous on 80.16 chs.
	$N 0^{\circ} 06' E$ bet. secs 27 and 28 $\Delta 15^{\circ} 40' E$
3.30	Coulee bears E
8.30	Top of ridge bears N. E.
12.70	Point of ridge bears W.
21.80	Coulee 4 ft deep 15 ft wide bears $20 75^{\circ} E$
33.80	Point of hill 75 ft high bears W.
39.00	Coulee 8 ft wide 3 ft deep bears E
40.00	Set a sandstone 18x6x6 ins 12 ins in ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face, dug pit 18x18x12 ins, 11 and 8 of stone 5 $\frac{1}{2}$ ft dist, and raised a mound of earth $1\frac{1}{2}$ ft high with 3 $\frac{1}{2}$ ft base alongside.
43.60	Coulee 2 ft deep 10 ft wide bears E.
47.80	Coulee 2 ft deep 10 ft wide bears $170^{\circ} E$ and N.W.; thence ascend to
52.00	Base of cliff 400 ft high
63.60	Top of cliff
80.00	It is impracticable to set a stone in the ground therefore set a sandstone 14x9x9 ins in a mound of stone $1\frac{1}{2}$ ft high 2 ft base, for cor. to secs. 21, 22, 27 and 28, marked with 2 notches on N and 3 notches on E edge. Pit in ground mountainous; soil sandy and stony 3 rd and 4 th rate. A few cedars along N end of line. Mountainous on 80.00 chs.
	$\Delta 88^{\circ} 53' E$ on a random line bet. secs 22 and 27 $\Delta 15^{\circ} 40' E$
80.00	Set temporary $\frac{1}{4}$ sec. cor.
80.50	Fall is like S of cor to secs. 22, 23, 26 and 27 Thence I run $188^{\circ} 55' W$ on a line line bet. secs 22 and 27

Subdivision of T. 17 S. R. 13 E. S. L. M.

Va $15^{\circ}40' E$

17.50	Wash in gulch bears S.E.
24.10	Ridge bears S
28.30	Wash in gulch bears S.
34.30	Point of ridge bears N.
40.25	Set a sandstone $15 \times 10 \times 5$ ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits $18 \times 18 \times 12$ ins E and W of stone $5\frac{1}{2}$ ft dist and raised a mound of earth $1\frac{1}{2}$ ft high to $3\frac{1}{2}$ ft base alongside.
40.50	Head of gulch bears S.E.
55.00	Wash in gulch bears S.
60.90	Stony ridge bears N and S
- 80.50	The cor. to secs. 21, 22, 27 and 28. Land mountainous; soil stony & th rate. No timber: Lim. runs along W side of canon. Mountainous on 80.50 chs.

N $0^{\circ}06' E$. bet secs 21 and 22

Va $15^{\circ}40' E$

2.20	Top of mountain, descend to
19.80	Wash in canon 150 ft deep bears E and W
28.00	Top of hill
31.90	Ledge of rock on rim of hill
40.00	Set a sandstone $15 \times 9 \times 5$ ins 11 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside. Pits airp.
43.40	Wash in canon 300 ft deep, bears E
50.50	Wash in gulch 100 ft wide 40 ft deep bears S.E.
58.00	Top of ridge descend 350 ft to
73.00	River bottom enter dense willow under growth
76.10	Right bank of Price river, set a post 3x3 ins, 4 ft long, with marked stone 12 ins in the ground for witness point, marked W. Post $\frac{1}{4}$ face; dug a pit $3 \times 3 \times 1$ ft 8 lbs of post and raised a mound of earth 2 ft high $4\frac{1}{2}$ ft base around post.

Subdivision of 9 1/4 R 13 E. D.C.W.

78.63	Left bank Price river set a post 4x4 ins. 4 ft long, with marked stone 12 ins in the ground for witness point, marked W.P. on S face; dug a pit 3x3x1 ft 8 lbs N of post and raised a mound of earth 2 ft high, 4 1/2 ft base around post.
80.00	Set a sandstone 21x9x7 ins 15 ins in the ground, for cov. to secs 15, 16, 21 and 22 marked with 3 notches on S and 3 notches on E edge; dug pits 18x18x12 ins in each sec. 5 1/2 ft dist, and raised a mound of earth 2 ft high to 4 1/2 ft base alongside.
	Land mountainous and river bot- tom; soil stony, 4 th rate, and sandy loam 1st rate.
	Dense undergrowth on 7.00 chs. Mountainous on 73.00 chs.
	$\vartheta 88^{\circ} 55' E$ on a random line bet. secs 15 and 22 $\vartheta 15^{\circ} 40' E$
40.00	Set a temporary 1/4 acre cov.
80.07	Intersect N and S line 14 lbs N of cov to secs 15, 16, 21 and 22
	ϑ hence I run, $\vartheta 88^{\circ} 49' W$ on a true line bet. secs 15 and 22 $\vartheta 15^{\circ} 40' E$
	Ascend.
32.30	Top of mountain
40.03	Set a sandstone 18x9x6 ins, 12 ins in the ground for 1/4 acre cov., marked 1/4 on W face; dug pits 18x18x12 ins E and W of stone, 5 1/2 ft dist and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside.
4185	Top of mountain, descended.
55.30	Foot of mountain 500 ft below; enter dense undergrowth of willow and sagebrush.
60.80	Abandoned line R.G.W.Ry and ditch dug in grade bears N.E.
65.65	Left bank Price river, set a post 3x3 ins. 4 ft long with marked stone 12 ins in the

Subdivision of T. 17 S. R. 10 E. S. D. M.

	ground for witness point, marked W.P. on W face; dug a pit 3x3x1 ft 8 ltrs E of post and raised a mound of earth 2 ft high, 4½ ft base around post.
69.60	Right bank Price river, set a post 3x3 ins. 4 ft long, with marked stone 12 ins in the ground for witness point, marked W.P. on E face; dug a pit 3x3x1 ft 8 ltrs W of post and raised a mound of earth 2 ft high 4½ ft base around post.
76.10	Right bank of Price river, set a post 3x3 ins. 4 ft long, with marked stone 12 ins in the ground, for witness point, marked W.P. on W face; dug a pit 3x3x1 ft 8 ltrs E of post, and raised a mound of earth 2 ft high, 4½ ft base around post.
78.65	Left bank Price river, set a post 4x4 ins, 4 ft long with marked stone 12 ins in the ground for witness point, marked W.P. on E face; dug a pit 3x3x1 ft 8 ltrs W of post and raised a mound of earth 2 ft base 4½ ft high around post.
80.07	The car to secs. 15, 16, 21 and 22. Land mountainous and river bottom, soil stony 4 th rate and sandy loam 1 st rate. Dense undergrowth on 24.77 chs Mountainous on 55.30 chs.
	N 0°06' E bet secs 15 and 16 Va 15°40' E
	Through dense underbrush
6.80	Foot of mountain, leave underbrush
18.00	Ridge 200 ft high, bears E and W
30.85	Left bank Price river; It is impracticable to set stone in the ground, I therefore set a sandstone 14x12x4 ins in a mound of stone 1½ ft high 2 ft base for witness point, marked W.P. on W face. Pits imp.
35.92	Right bank of Price river, It is impracticable to set stone in ground, I therefore set a

Subdivision of 9170 R 13 E. S. L. M.

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|---------|--|
| | sandstone $92 \times 20 \times 5$ ins in a mound of stone $1\frac{1}{2}$ ft high 3 ft base for a witness point marked W.P. on N face. Pits imp. ascend. |
| 40.00 | It is impracticable to set stone in the ground, I therefore set a sandstone $9 \times 10 \times 5$ ins in a mound of stone $1\frac{1}{2}$ ft high 2 ft base for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face. Pits imp. |
| 45.20 | Ridge 200 ft above river bears $N 70^{\circ} W$. |
| 55.35 | Right bank of Price river; It is impracticable to set post in the ground, I therefore set a post 4×4 ins, 4 ft long in a mound of stone 2 ft high h, 3 ft base, for witness point, marked W.P. on N face. Pits imp. |
| 57.24 | Left bank of Price river; it is impracticable to set stone in ground, I therefore set a sandstone $34 \times 10 \times 5$ ins in a mound of stone 2 ft high h 3 ft base for witness point marked W.P. on N face. Pits imp. |
| 65.80 | Ridge 200 ft above river bears $S 80^{\circ} E$ |
| 71.37 | Left bank of Price river; it is impracticable to set stone in ground, I therefore set a sandstone $18 \times 10 \times 6$ ins in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base, for witness point marked W.P. on N face. Pits imp. |
| 73.12 | Abandoned line R.G.W.Ry bears E and W Right bank of Price river, set a sandstone $20 \times 8 \times 6$ ins, 15 ins in the ground for witness point, marked W.P. on N face; dug a pit $3 \times 3 \times 1$ ft 8 ft deep and raised a mound of earth 2 ft high $4\frac{1}{2}$ ft base along sides. |
| 75.25 | Foot of steep ascent. |
| 75.95 | Ledge of rock 5-0 ft high h. |
| 78.15 | Ridge 150 ft high h bears W descended to |
| - 80.00 | It is impracticable to set stone in ground, I therefore set a sandstone $24 \times 6 \times 6$ ins in a mound of stone $1\frac{1}{2}$ ft high 2 ft base for cor. to secs. 9, 10, 15 and 16, marked with 4 notches on N and 3 notches on E edge. Pits imp. |

Subdivision of T 17 S R 10 E P. L. M.

Land mountainous and river bottom; soil stony, 4th rate, and sandy loam, 1st rate.

Dense undergrowth on 6.80 chs

Mountainous on 73.20 chs.

N 88°49' E on a random line bet secs 10 and 15
to N 15°40' E

40.00 Set temporary 1/4 sec. cor.

80.20 Intersect cor to secs. 10, 11, 14 and 15.

Then cross river, N 88°49' W on a true line bet.
secs 10 and 15

N 15°40' E

1.80 Ridge bears N.E.

16.00 Ridge bears S.E. and N.W.

40.10 It is impracticable to set stone in the ground
I therefore set a sandstone 15x7x4 ins in a
mound of stone 1 1/2 ft high, 2 ft base,
for 1/4 sec. cor. marked 1/4 on N face. Pd imp.

42.40 Ridge bears N and S.

48.00 Wash in gulch bears S.W.

62.00 Ridge bears N and S, descend 400 ft to

68.50 abandoned line R.G.W.Ry. bears N.W. and
S.E.

68.66 Left bank of Price river; it is impracticable
to set stone in the ground; I therefore set a
sandstone 22x10x6 ins. in a mound of
stone 1 1/2 ft high 2 ft base, for witness
point, marked W.P. on W face. Pd imp.

71.00 Right bank of Price river; set a sandstone
20x10x8 ins, 15 ins in the ground for witness
point, marked W.P. on E face; dug a pit
3x3x1 ft 8 lbs W of stone and raised a
mound of earth 2 ft high by 4 1/2 ft base
alongside..

73.00 Begin steep stony ascent.

80.20 The cor. to secs 9, 10, 15 and 16

Land mountainous, soil, stony, 4th rate.
No timber.

Mountainous on 80.20 chs.

Subdivision of T 17 S. R 13 E. S.L. M.

$N 0^{\circ} 06' E$ bet. secs 9 and 10

$Va 15^{\circ} 35' E$

- 2.75 Right bank of Price river; set a sandstone
 $20 \times 8 \times 4$ ins, 15 ins in the ground for witness
 point, marked W.P. on N face; from which,
 A cottonwood tree 19 ins in diam., marked
 with blaze and notch bears $N 75^{\circ} E$ 9 ft dist.
 No other tree in limit.
- 4.01 Left bank of Price river; it is impracticable to set stone in the ground; I therefore set
 a sandstone $24 \times 6 \times 6$ ins in a mound of
 stone $1\frac{1}{2}$ ft high 2 ft base, for witness
 point, marked W.P. on S face. Pits imp.
- 4.20 Abandoned line R.G.W.Ry. bears N.W. and S.E.
 Ascending S and W face of mountain
- 7.50 Ledge of rock bears N.W.; cliff dwelling 12
 chs N.W. in this ledge.
- 18.40 Couleⁱ bears S.E.
- 40.00 It is impracticable to set stone in the ground
 I therefore set a sandstone $27 \times 10 \times 8$ ins in a
 mound of stone $1\frac{1}{2}$ ft high 2 ft base for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face. Pits imp.
 From $\frac{1}{4}$ sec. cor. J. Curtis' house bears
 $S 82^{\circ} W$ 31 chs. dist.
- 53.26 Top of mountain 600 ft high; descend along
 N and E slope of mountain.
- 64.00 Wash in gulch 40 ft deep bears N.E.
- 77.00 Wash in gulch 50 ft deep bears N.E.
- 80.00 It is impracticable to set stone in the ground,
 I therefore set a sandstone $18 \times 16 \times 8$ ins. in a
 mound of stone $1\frac{1}{2}$ ft high 2 ft base
 for cor. to secs. 3, 4, 9 and 10, marked with
 5 notches on S, and 3 notches on E edge.
 Pits imp.
- Surd mountainous; soil. stony, $3^{2/3}$ and $4^{1/2}$
 rate. A few cedars on N slope of mountain.
 Mountainous on 80.00 chs.

$S 88^{\circ} 4' E$ on a road line, bet secs 3 & 10
 $Va 15^{\circ} 40' E$

- 40.00 Set a temporary $\frac{1}{4}$ sec. cor.

Subdivision of T. 17 S. R. 13 E. S. L. N.W.

80.04	Intersect N and S line 5 ecls S of cor to secs. 2, 3, 10 and 11. Hence I run, N 88° 51' W on a true line, bet secs. 3 and 10 Va 15° 46' E.
	Ascend.
14.00	Edge of canon
17.00	Wash in canon 50 ft deep bears S.
21.34	Wash in gulch bears S.E.
23.54	Wash in gulch bears N.E. joins 1 st gulch 50 ft N of line.
40.02	Set a sandstone 20x10x3 ins. 15 ins in the ground for 1/4 sec. cor. marked 1/4 on N face; raised a mound of stone 1 1/2 ft high. 2 ft base along sides. Pits comp. Ascend along E slope of mountain.
76.00	Wash in gulch 60 ft deep bears N.E.
80.04	The cor. to secs. 3, 4, 9 and 10. Land mountainous; soil rocky and sandy, 3000 rate. A few scattering cedars on W 1/4 of line Mountainous on 80.04 chs.

	N 0° 06' E. on a random line bet. secs 3 and 4 Va 15° 46' E
40.00	Set a temporary 1/4 sec. cor.
77.39	Intersect N bdy of 7p. 9 ecls E of cor. to secs 3, 4, 33 and 34 which is a sandstone 20x8x6 ins firmly set in a mound of stone and marked with 3 notches on E and 3 notches on W edge. Hence, I run, S 0° 2' W on a true line bet. secs. 3 and 4 Va 15° 46' E.

	Ascend
5.50	Top of mountain, descend steep rocky slope.
19.40	Wash in gulch bears S.E. 150 ft below cor.
36.40	Wash in gulch bears S.E.
37.39	It is impracticable to set stone in the ground; I therefore set a sandstone 18x 10x6 ins in a mound of stone 1 1/2 ft high

Subdivision of 9 1/2 S R 13 E S.D.W.

	2 ft base, for 1/4 sec cor. marked 14 on W face. Pits imp.
41.10	Wash in gulch bears S.E.
46.20	Wash in gulch bears E.
48.60	Wash in gulch bears N.E.
52.40	Salt Lake wagon road bears W
61.80	Wash in gulch bears N.E.
77.39	The cor. to secs. 3, 4, 9 and 10. Land mountainous; soil stony and gravelly, 3 rd and 4 th rate. A few cedars on line. Mountainous on 77.39 chs.

May 26 1894

At 9:01 P.M., watch 22 faster than local
time, May 26th in my camp $155^{\circ}W$
39 chs from cor to secs. 3, 4, 9 and 10; I
direct my telescope on Polaris and
drive a picket on line 300 ft northerly.
At 10:30 A.M. May 27 I find the magnet.
ic bearing of my line to be $N 15^{\circ} 5' W$.
Local Ast. mean time of obs = May 26th
9 h, m - 22 m = May 25th 32 h 39 m
U.C. Polaris May 15 21 h 41.8 m
Diff. 10 days sub. 39.2 m
" " May 25th 21 h 02.6 m
which latter from time of obs = 11 h 36.4 m
the hour angle of Polaris.
Az of Polaris Lat. $39^{\circ}N$ is 8' West.

North end of needle $15^{\circ} 5' E$
Az zenith of Polaris 8' W.
The diff. is the Va $15^{\circ} 46' E$.
which is also the mean declination
for this point.

I begin at the cor to secs. 32 and 33 on the
S bdy of the 7th previously reestablished
by myself.
Thence I run $N 0^{\circ} 05' E$ bet secs. 32 and 33
Va $15^{\circ} 45' E$

22.70 Coules 8 ft wide, 4 ft deep bears N.W.

Subdivision of 917 A.R. 13 E S.L. 700.

40.00	Set a sandstone 16x14x5 ins, 10 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins N and S of stone, 5 $\frac{1}{2}$ ft dist and raised a mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base along side.
54.30	Coules 20 ft wide 4 ft deep, bears N.E.
58.50	Coules 30 ft wide, 4 ft deep bears E
78.30	Top of stony point, 30 ft high bears N.W. and S.E.
79.00	Coules bears E.
80.00	It is impracticable to set stone in the ground; I therefore set a sandstone 18x10x3 ins. in a mound of stone 1 $\frac{1}{2}$ feet high 2 ft base for cor. to secs. 28, 29, 32 and 33, marked with 1 notch on N and 4 notches on E edge. Pits imp. Land mountainous; soil stony and sandy 3 $\frac{1}{2}$ and 4 $\frac{1}{2}$ rods, no timber. Mountainous on 80.00 chs.

189°01' E on a random line bet. secs. 28 and 33
To 15°45' E

40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.30	Intersect N and S line 25 rods S of cor. to secs. 27, 28, 33 and 34. Hence I run, N 89°12' W on a true line bet secs. 28 and 33 To 15°45' E
12.20	Top of hill 100 ft above cor.
14.00	Ledge of rock
14.70	Wash in canon bears N
19.00	Point of rock 50 ft high
19.80	Wash in canon bears from W to S.E.
28.00	Leave bottom of canon.
40.15	It is impracticable to set stone in the ground; I therefore set a sandstone 20x12x4 ins in a mound of stone 1 $\frac{1}{2}$ ft high 2 ft base for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. Pits imp.
42.80	Top of hill 100 ft high
50.50	Wash in canon bears N.W.
61.20	Stony point 100 ft high

Subdivision of T. 17 S. R. 13. E. S. L. M.

72.00	Couleis 100 ft wide 6 ft deep bears N.
80.30	The cor. to secs. 28, 29, 32 and 33 Land mountainous, soil stony & sparse. No timber Mountainous on 80.30 chs.
	I begin at the cor to secs 31 and 32 on the S bdy of Tp previously reestablished by myself.
	Thence I run, N 0°0' E, bet. secs. 31 and 32.

Va 15°40' E

40.00	Through h dense artemesia under- growth, over rolling ground Set a gypsum stone 16x9x6 ins, 10 ins in the ground, for 1/4 sec. cor., marked 1/4 on W face; dug pits 18x18x12 ins N and S of stone 5 1/2 ft dist. and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside.
80.00	Set a sandstone 16x10x4 ins, 10 ins in the ground for cor to secs. 29, 30, 31 and 32, marked with 1 notch on S and 5 notches on E edge; raised a mound of stone 1 1/2 ft high 2 ft base alongside. Pits imp. Land rolling; soil sandy loam 2 ins spate Dense artemesia undergrowth on 80.00 chs.

D. 89°0' E on a random line bet. secs. 29 and 32

Va 15°45' E

40.00	Set a temporary 1/4 sec. cor.
80.00	The cor to secs 28, 29, 32 and 33.
	Thence I run, N 89°0' W on a true line bet secs 29 and 32

Va 15°45' E

5.50	Through h dense artemesia undergrowth Couleis 6 ft wide 2 ft deep bears S. E.
26.80	Couleis bears S. E.
40.00	Set a sandstone 16x10x6 ins, 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N face; dug pits 18x18x12 ins E and W of stone 5 1/2 ft dist. and raised a mound

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of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base along side.

41.00 Couleis 15 ft wide, 4 ft deep bears S.
51.00 Couleis 5 ft wide 3 ft deep bears S. E
80.00 The cor. to secs. 29, 30, 31 and 32.
Land rolling; soil sandy 3rd rate
A few cedars on E $\frac{1}{2}$
Dense artemesia undergrowth on
80.00 chs.

From the cor. to secs. 28, 29, 32 and 33 I run
N $0^{\circ} 05' E$ bet secs 28 and 29
Va $15^{\circ} 46' E$

5.20 Couleis 5 ft deep 40 ft wide bears E
13.10 Top of ledge 40 ft high, ascend over eastern
slope of sand mountain.
19.00 Couleis bears S E.
39.90 Couleis 4 ft deep 10 ft wide bears E
40.00 Marked cross at exact cor point and $\frac{1}{4}$
on sandstone ledge for $\frac{1}{4}$ sec cor and
raised a mound of stone $1\frac{1}{2}$ ft high,
2 ft base alongside.
- 80.00 It is impracticable to set a stone in the
ground, therefore set a sandstone 20x12x7
in in a mound of stone $1\frac{1}{2}$ ft high,
2 ft base for cor to secs. 20, 21, 28 and 29
marked with 2 notches on S, and 2
notches on E edge. Pits imp.
Land mountainous; soil, stony 4th rate.
No timber.
Mountainous on 80.00 chs.

N $89^{\circ} 12' E$ on a random line bet. secs 21 and 28
Va $15^{\circ} 46' E$

40.00 Set a temporary $\frac{1}{4}$ sec. cor.
80.47 Intersect N and S line 21 Mds N of cor to
secs 21, 22, 27 and 28.
Thence I run N $89^{\circ} 03' W$ on a true line
bet secs 21 and 28
Va $15^{\circ} 46' E$

Over top of mountain through heavy

Subdivision of 9 1/2 A R 13 E I. S. M.

	scrub cedar timber.
16.00	Top of ridge bears N and S.
28.50	Edge of mountain, leave timber, descend abrupt slope.
38.50	Foot of mountain
40.23	Set a sandstone 15x12x4 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N face; dug pits 18x18x12 ins E + W of stone 5 ft dist. and raised a mound of earth 1/2 ft high, 3 1/2 ft base alongside.
42.90	Coulee bears S; ascend N slope of mountain through scattering cedars.
- 80.47	The cor to secs. 20, 21, 28 and 29. Sand mountainous; soil, stony 4 th rate. Heavy cedar timber on 28.50 chs mountainous on 80.47 chs.
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From the cor to secs. 29, 30, 31 and 32 I run N 0° 0' 4" E bet secs. 29 and 30 Va 15° 45' E	
	Through dense artemesia in undergrowth Ascend.
3.00	Enter heavy scrub cedar timber leave undergrowth
33.00	Coulee bears N.W.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 20x18x8 ins in a mound of stone 1 1/2 ft high, 2 ft base, for 1/4 sec. cor. marked 1/4 on W face. Pits imp. No bearing trees available. Descend.
40.60	Coulee bears N.W. ascend.
53.00	Base of cliffs 50 ft high bears N.E + S.W.
60.00	Top of hill, descend
71.00	Cliff 50 ft high bears E and S.W.; descend
76.00	Leave cedar timber, enter dense artemesia in undergrowth
- 80.00	Set a sandstone 18x9x6 ins, 12 ins. in the ground for cor. to secs. 19, 20, 29 and 30, marked with 2 notches on S and 5 notches on E edge; dug pits 18x18x12 ins in each sec.

Subdivision of 9 1/2 R 13 E. S. L. M.

5 1/2 ft dist. and raised a mound of earth
 2 ft high, 4 1/2 ft base along side.
 Land mountainous; soil, stony and sandy,
 3rd and 4th rate.
 Heavy scrub cedar timber on 73.00 chs.
 Dense undergrowth on 7.00 chs.

N 89° 0' E on a random line bet. secs 20 and 29
 Va 15° 50' E

40.00 Set a temporary 1/4 sec. cor.
 Intersect N and O line 14 1/2 ls S of cor to secs
 20, 21, 28 and 29
 Hence I run N 89° 0' W on a true line bet secs
 20 and 29

Va 15° 50' E

Ascend along N slope of mountain
 Coule 12 ft wide, 5 ft deep bears N. E.
 18.00 Coule bears N. E.
 39.88 Set a sandstone 15x10x4 ins 10 ins in the
 ground for 1/4 sec. cor. marked 1/4 on N
 face, dug pits 18x18x12 ins E and W of stone
 5 1/2 ft dist. and raised a mound of earth
 1 1/2 ft high, 3 1/2 ft base alongside.

42.40 Top of hill
 Coule bears N. E.

66.00 Top of ledge 100 ft high bears N + S; descend
 71.00 Foot of stony descent.

79.76 The cor to secs. 19, 20, 29 and 30
 Land mountainous; soil, sandy and
 stony, 4th rate. Scattering cedars on
 top of mountain.

Mountainous on 79.76 chs.

May 31st 1894

From the cor to secs. 20, 21, 28 and 29 I run
 N 00 5' E bet secs. 20 and 21

Va 15° 46' E

Gradually descending over N slope of
 mountain through heavy scrub cedar
 timber

53.50 Wash in gulch 40 ft wide 30 ft deep
 bears E

Subdivision of T 17 S R. 13 E. D. S. M.

36.50	Wash in gulch 50 ft deep bears N.
40.00	Set a sandstone 20x8x4 ins, 15 ins in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face. Raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside. Pits imp. No bearing trees available. Leave timber.
43.30	Leave gulch bears N.W.
47.00	Ridge bears E
58.30	Wash in gulch 50 ft deep bears E.
74.70	Wash in gulch 60 ft deep bears N and E
78.40	Leave gulch bears N.W.
80.00	Set a sandstone 20x10x6 ins 15 ins in the ground for cor to secs. 16, 17, 20 and 21 marked with 3 notches on N and 4 notches on E edge; raised a mound of stone $1\frac{1}{2}$ ft high. 2 ft base alongside. Pits imp. Land mountainous; soil stony, 4 th rate. Heavy scrub cedar timber on 40 chs. Mountainous on 80.00 chs.
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	$N 89^{\circ} 0' 3'' E$ on a random line bet secs. 16 and 21 $N 15^{\circ} 50' E$
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.53	Intersect N and S line 280 ft S of cor to secs. 15, 16, 21 and 22. Thence I run $N 89^{\circ} 15' W$ on a tree line bet secs. 16 and 21 $N 15^{\circ} 50' E$
	Through cottonwood timber and dense underbrush.
2.50	Foot of low ridge
10.47	Left bank of Price river set a post 3x3 ins 4 ft long, with marked stone, 12 ins in the ground for witness point, marked W.P. on W face, dug a pit 3x3x1 ft 80 ft E of post and raised a mound of earth 2 ft high, $4\frac{1}{2}$ ft base around post. No bearing trees available.
127.3	Right bank of Price river set a post, 4x4 ins 4 ft long, with marked stone, 12 ins in the ground, for witness point, marked W.P. on

Subdivision of T 17 S. R 13 E. S. L. 200.

	E face; dug a pit 3x3x1 ft. 8 ft N.W. of post and raised a mound of earth 2 ft high, 4 1/2 ft base around post. No bearing trees available.
23.00	Leave timber and undergrowth; ascend along southern slope of high ridge.
40.26	Set a sandstone 12x10x5 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N face raised a mound of stone 1 1/2 ft high, 2 ft base alongside. Pits imp.
- 80.53	The cor to secs. 16, 17, 20 and 21 Land mountainous and river bottom; soil stony and alluvial, 4 th and 1 st rate. Dense undergrowth on 23.00 chs. Mountainous on 57.03 chs.

N 0°05' E bet secs 16 and 17

Vd 15°42' E

Ascend steep slope.

9.80	Top of mountain 300 ft high bears N 70° E
13.00	Descend over W slope of mountain
40.00	Set a sandstone 14x9x6 ins, 9 ins in the ground for 1/4 sec. cor. marked 1/4 on W face; dug pits 18x18x12 ins N and S of stone 5 1/2 ft dist. and raised a mound of earth 1 1/2 ft high, 3 1/2 ft base alongside.
46.00	Comer bears N.E.
67.20	Top of ridge bears S.E.; descend steep hill to
72.50	River bottom, enter dense underbrush and cottonwood timber.
- 80.00	Set a sandstone 18x12x4 ins, 12 ins in the ground, for cor. to secs. 8, 9, 16 and 17, marked with 4 notches on S and 4 notches on E edges; dug pits 18x18x12 ins in each sec. 5 1/2 ft dist. and raised a mound of earth 2 ft high, 4 1/2 ft base alongside. No bearing trees available.
	Land mountainous and river bottom; soil stony 3 rd rate and alluvial, 1 st rate. Dense undergrowth and cottonwood timber on 7.50 chs.

Subdivision of 9 1/2 S. R 13 E. D. L. W.

Moratorium on 72.50 chs.

889° 15' E on a random line bet. secs 9 and 16
Va 15° 46' E

- 40.00 Set a temporary 1/4 sec. cor.
80.38 Intersect N and S lines 18.411s Dog cor to
secs 9, 10, 15 and 16
Hence I run N 89° 2' W on a true line
bet secs. 9 and 16
Va 15° 46' E
Along N slope of ridge
5.30 Right bank of Price river set a sandstone
24 x 12 x 3 ins, 18 ins in the ground, for witness
point, marked W.P. on W face and raised
a mound of stone 1 1/2 ft high, 2 ft base
alongside.
15.32 Right bank of river marked cross W.P.
on a boulder 10 x 4 x 1 ft above ground for
witness point and raised a mound
of stone 1 1/2 ft high, 2 ft base alongside.
Ascend N slope of hill.
15.90 Top of stony point bears N.
21.40 Wash in gorge 200 ft deep bears N.E.; ascend.
35.00 Top of steep ascent; ascend gradually.
40.19 Set a sandstone 16 x 8 x 5 ins 10 ins in the ground
for 1/4 sec. cor. marked 1/4 on N face, raised
a mound of stone 1 1/2 ft high, 2 ft base
alongside. Pits imp.
63.40 Top of hill 400 ft above river; descend steep
slope to
71.97 Right bank of Price river. set a sandstone
15 x 7 x 4 ins 10 ins in the ground for witness
point marked W.P. on W face; raised a
mound of stone 1 1/2 ft high, 2 ft base
alongside. Pits imp.
79.48 Right bank of river set a post 3 x 3 ins
4 ft long, with marked stone, 12 ins in the
ground for witness point, marked W.P.
on E face; dug a pit 3 x 3 x 1 ft 8.411s W
of post and raised a mound of earth
2 ft high, 4 1/2 ft base around post.
80.38 The cor to secs. 8, 9, 16 and 17.

Subdivision of 170 R 15 E N.L. M.

Land mountainous; soil stony 4th rate
No timber.
Mountainous on 80.38 chs.

No 005 E bet secs 8 and 9.

VA 15046 E

- 1.00 Ridge at bank of Price river, I did not set a witness point at this point as it is but 1 ch from the sec cor and the W.P. on opposite bank is in plain sight.
- 3.75 Left bank of Price river a cottonwood tree 15 ins in diam for witness point marked W.P. on S side.
Thence through dense underbrush and cottonwood timber.
- 6.00 Old cabin 2.00 chs E of line
- 13.00 Base of mountain; leave dense under growth and timber.
- 29.50 Ridge 250 ft high bears S. E and W.W.
- 33.00 Head of gulch bearing E.
- 40.00 It is impracticable to set a stone in the ground, I therefore set a sandstone 12.8x8x5 ins for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on W face in a mound of stone $1\frac{1}{2}$ ft high 2 ft base. Pts imp.
- 52.00 Begin abrupt descent.
- 71.00 Abandoned line P.G. W. Ridge bears S. E and W.W.
- 71.40 Foot of mountain; enter dense artemesia undergrowth.
- 75.00 Grassy trail creek (dry) bears S. E and W thence in dry channel of creek $35\frac{1}{2}$ ins E of line as the cor is in the creek bed, I set a sandstone 18x9x5 ins 12 ins in the ground for witness cor to secs 4, 5, 8 and 9 marked W.C. with 5 notches on S and 4 notches on E edge, raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. Pts imp.
- Land mountainous and river bottom; soil stony 4th rate and alluvial, 1st rate. Dense undergrowth on 2.3.60 chs.

Subdivision of T17 DR 13 E. O.L.M.

Mountains on 56.40 chs.

D $89^{\circ}2'3''$ E on a random line bet secs 4 and 9
Va $15^{\circ}50' E$

\$10.00 Set a temporary $\frac{1}{4}$ sec. cor.

Intersect N and S line 2911ks S of cor to
secs. 3, 4, 9 and 10.

Thence I run N $89^{\circ}36' W$ on a true
line bet secs 4 and 9

Va $15^{\circ}50' E$

Ascend

9.00 Top of ridge bears $N 10^{\circ} E$

14.60 Wash in gulch 60 ft deep bears N.

35.60 Wash in canon bears N.

38.80 Ridge bears $N 70^{\circ} W$

44.0.29 It is impracticable to set a stone in the
ground, therefore set a sandstone 18x7x4
in. in a mound of stones $1\frac{1}{2}$ ft high,
2 ft base for $\frac{1}{4}$ sec. cor, marked "Four
W face. Pits imp."

53.50 Foot of steep descent

71.30 Wagon road bears N and S, descend over
broken ground, through artemesia under-
growth to

80.43 Witness cor to secs. 4, 5, 8 and 9

- 80.58 The point for cor. to secs. 4, 5, 8 and 9
Lands mountainous, soil, stony 3rd
and 4th rate.

No timber

Mountains on 80.58 chs.

N $0^{\circ}05'$ E bet secs 4 and 5

Va $15^{\circ}46' E$

\$10.00 Set temporary $\frac{1}{4}$ sec. cor.

76.71 Intersect N bdy of Tp 2811ks W of cor to secs.
4, 5, 32 and 33 as hereinbefore described.

Thence I run N $0^{\circ}18' W$ on a true line bet secs.
4 and 5

Va $15^{\circ}46' E$

77.30 Wash in gulch 100 ft deep bears $N 10^{\circ} W$

78.70 Base of mountain enters dense

Subdivision of T17S R10E D.L.W.

	artemesia undergrowth
27.70	Abandoned line R.S.W. Ry bears N.W. and S.E.
36.71	It is impracticable to set a stone in the ground I therefore set a sandstone 16x12x5 ins in a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face. Pits imp.
53.00	Abandoned line R.S.W. Ry bears N.E. and S.W.
59.80	Wagon road bears S.E.
63.50	Enter grassy trail creek bears S, leave undergrowth.
76.71	The point for cor to secs. 4, 5, 8 and 9 Land mountainous and broken; soil stony 4 th rate
$\frac{63.50}{13.21}$	
	No timber.
	Mountainous on 24.70 chs. dense undergrowth on 38.80 chs. ✓
	June 1 st 1894

From the cor to secs. 19, 20, 29 and 30 June
 $11^{\circ}0'4''$ E but secs 19 and 20
 $8^{\circ}15'48''$ E

	through dense artemesia undergrowth
16.00	Coule 75 ft wide 8 ft deep bears N.E.
40.00	Set a sandstone 18x10x4 ins 12 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face, dry fill 18x18x12 ins N and S of stone, 5 ft dist and raised a mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base alongside
40.70	Coule bears N.E.
51.40	Enter Coule 75 ft wide 8 ft deep bears N
59.00	Leave same coule
61.00	Ascend; leave dense undergrowth
65.00	Wash in gulch bears E
66.40	Top of cliff 100 ft high bears N.E. and N.W.
80.00	Set a sandstone 20x10x3 ins, 15 ins in the ground for cor to secs 17, 18, 19 and 20, marked with 3 notches on N and 5 notches on E edge; raised a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp. No bearing trees available.
	Land, mountainous and rolling; Soil,

Subdivision of T 17 S. R. 13 E. 0. L. M.

	stony and sandy 3 rd rate. No timber. Mountainous on 19.00 chs. Sparse artemesia undergrowth 61.00 chs.
	D 89°07' E on a random line bet. secs. 17 and 20 Va 15°50' E
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
79.73	descend N and O line 21.11cs N of cor to secs. 16, 17, 20 and 21 There I run N 89°16' W on a tree line bet. secs. 17 and 20 Va 15°50' E
17.0	Wash in gulch bears N.E.; ascend over broken ground
14.60	Enter gulch 20 ft deep 30 ft wide bears N.E.
19.60	Leave gulch bears N.E.
34.30	Wash in gulch bears D 80° E
39.87	Set a sandstone 18x12x4 ins 12 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face dig pits 18x18x12 ins E and W of stone, 5 $\frac{1}{2}$ ft dist, and raised a mound of earth $1\frac{1}{2}$ ft high. 3 $\frac{1}{2}$ ft base alongside.
42.00	Top of hill
52.50	Top of cliff 100 ft high bears N.E. + SW.
56.50	Wash in canon bears N.E.
60.20	Top of cliff 100 ft high
79.73	The cor to secs. 17, 18, 19 and 20. Lands, mountainous; soil stony and sandy, 3 rd rate. No timber. Mountainous on 79.73 chs
	N 80°4' E bet secs. 17 and 18 Va 15°40' E
	descend over broken ground.
35.00	Wash in gulch 50 ft deep bears N.E.
36.00	Leave wash bears N.E.
40.00	It is impracticable to set a stone in the ground, therefore set a sandstone 24x10x8 ins. in a mound of stone. 1 $\frac{1}{2}$ ft high, 2 ft base for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on W face. Pits imp

Subdivision of 17 S. R. 18 E. D. L. 32.

descend.

64.00	Thence cor 1.00 ch E; thence bears N 80° E
65.00	River bottom enters dense underbrush
65.38	Thence bears N W and D E.
67.55	Center high water branch of Price river.
75.70	Right bank Price river, set a sandstone 36x4x4 ins 27 ins in the ground for witness point marked W. P. on N face; dug a pit 3x3x1 ft 8 lbs of stone and raised a mound of earth 2 ft high, 4 $\frac{1}{2}$ ft base alongside.
76.84	Left bank Price river set a post 3x3 ins 4 ft long, with marked stone 12 ins in the ground for witness point marked W. P. on D face; dug a pit 3x3x1 ft 8 lbs of post and raised a mound of earth 2 ft high, 4 $\frac{1}{2}$ ft base around post.
77.00	Leave river bottom and dense underbrush
- 80.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 42x14x4 ins in a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base, for cor to secs. 7, 8, 17 and 18 marked with 4 notches on N and 5 notches on E edge. Pit imp.
	Sand mountainous and river bottom; soil stony 3 rd rate and alluvial 1 st rate.
	No timber
	Dense underbrush on 14.00 chs
	Mountainous on 6.80 chs.

N 89° 16' E on a random line bet secs 8 and 17
Va 15° 46' E

40.00 Set a temporary $\frac{1}{4}$ sec. cor.
79.92 Intersect N and S line 18d 16s N of cor to secs.
8, 9, 16 and 17

Thence turn N 89° 08' W on a true
line bet secs. 8 and 17

Va 15° 46' E

Through dense cottonwood timber

11.00 Leave timber; ascend.

Begin abrupt ascent.

Subdivision of T 17 S R 13 E D. L. M.

38.00	Point of high ridge bears S.
39.96	Set a sandstone 18x18x3 ins 12 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face. raised a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp.
40.00	Foot of mountain; river bottom; enter dense willow undergrowth.
40.40	Cabin 150 ft N of line; enter heavy cottonwood timber.
43.90	Right bank of Price river, set a sandstone 13x8x6 ins. 8 ins in the ground for witness point, marked W.P. on W face, from which a cottonwood tree 11 ins in diam. bears $1153^{\circ}W$ 71 ft dist. marked with blaze and notch. A cottonwood tree 18 ins in diam. bears $010^{\circ}E$ 4 ft dist marked with blaze and notch.
45.67	Lft bank of Price river set a sandstone 24x8x6 ins 18 ins in the ground for witness point marked W.P. on E face; raised a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp. No bearing trees available.
48.40	River river bottom and timber; ascend.
49.92	The cor to secs 7, 8, 17 and 18 Land mountainous, and river bottom; soil, stony 4 th rate, and alluvial, 1 st rate. Dense undergrowth or heavy timber are 34.40 chs.
	Mountainous on 54.32 chs.
	June 3 rd 1894
	No 004 E bet secs 7 and 8 Va $15^{\circ}46' E$
	Ascend.
52.20	Wash in gulch bears E
53.30	Wash in gulch soft dep bears E. ascend.
58.00	Begin abrupt ascent.
58.24	Top of high bluff bears $1120^{\circ}E$ and W.
40.00	Set a sandstone 18x10x4 ins. 12 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face. Raised a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp.

Subdivision of T 17 R 18 E S.L. M.

58.00	Ascend steep hill
80.00	Set a sandstone 24x10x3 ins. 18 ins in the ground for cut to secs. 5, 6, 7 and 8, marked with 5 notches on S and 5 notches on E edge; raised a mound of stone 1 $\frac{1}{2}$ ft high 2 ft base alongside. Pit 5 ins. Land mountainous, soil stony & rocky. No timber. Mountainous on 8000 chs.
	$D 89^{\circ} 08' E$ on a random line bet secs 5 and 8 $Va 15^{\circ} 46' E$
39.00	Set a temporary W.C. 1/4 sec cov.
80.09	Intersect N and S line 3 1/2 ins D of cut to secs 4, 5, 8 and 9 Thence turn $W 89^{\circ} 09' W$ on a true line bet secs 5 and 8 $Va 15^{\circ} 46' E$
0.90	Right bank of grassy trail cut(dug) bears S.
10.00	Abandoned line R.S.W. by bears $81^{\circ} 8' W$ and $N 10^{\circ} E$
11.00	Begin abrupt descent.
14.70	Top of hill 200 ft high bears $N.W. + S.E.$
17.20	Begin steep descent.
23.60	Stony point bears N.
28.50	River bottom; enter dense underbrush.
31.66	Left bank Price river set a post 3x3 ins 4 ft long, with a packed stone, 12 ins in the ground for witness point, marked W.P. on W face; dug a pit 3x3x1 ft 8 1/2 ins E and raised a mound of earth 2 ft high, 4 1/2 ft base around post.
33.75	Right bank of Price river, set a sandstone 18x10x3 ins, 12 ins in the ground for witness point, marked W.P. on E face; dug a pit 3x3x1 ft 8 1/2 ins W of stone and raised a mound of earth 2 ft high, 4 1/2 ft base alongside.
39.77	Right bank of river, a cottonwood tree 9 ins in diam. blazed and marked W.P. on W face for witness point.

Subdivision of T17 R13 E. S. L. M.

4154	as the $\frac{1}{4}$ sec. cor. falls in Price river, I set at a sandstone $16 \times 8 \times 4$ ins set 11 ins in the ground for witness point to $\frac{1}{4}$ sec. cor. marked W.C. $\frac{1}{4}$ on N face; dug pits $18 \times 18 \times 12$ ins E and W of stone $5\frac{1}{2}$ ft thick and raised a mound of earth $1\frac{1}{2}$ ft high 2 ft base alongside. This point is also left bank of river.
4500	Leave river bottom and dense under-growth; ascend steep slope.
77.00	Top of mountain 600 ft above river bears Ward A.
- 80.09	The cor to secs 5, 6, 7 and 8 Land mountainous and river bottom Soil stony 4 th rate and alluvial 1 st rate. dense undergrowth on 16.50 cho. Mountainous on 63.59 cho.
N $0^{\circ}04'$ E on a random line bet secs 5 and 6 Va $15^{\circ}50'$ E	
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
75.21	Intersect N. bdy of Twp 11 Mts E of cor to secs 5, 6, 31 and 32 hereinbefore described Thence I run N $0^{\circ}04'$ E on a true line bet secs 5 and 6 Va $15^{\circ}50'$ E
3.00	Wash in gulch bears S.
10.20	Leave wash bears E.
27.50	Wash in gulch bears N. E. joins 1 st gulch 3.00 chs E of line. Ascend.
35.20	Set a sandstone $20 \times 8 \times 7$ ins 15 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside! Pits imp.
51.50	Ridge bears N.E.
55.50	Wash in gulch bears E.
63.10	Ridge bears E + W. 300 ft above sec cor. Descend over W slope of mountain.
- 75.21	The cor to secs 5, 6, 7 and 8. Land mountainous; soil stony 4 th rate. No timber.

Subdivision of T 17 S R 13 E S. L. N.W.

Mountainous on 75.21 chs.

June 4th 1894.

In accordance with Additional Special Instructions dated March 18th 1895,
issued to me, and having already
reestablished Clark's Valley Guide Meridian
in accordance with the same, I proceed
to run the section lines closing on the
said guide meridian or the W bdy of the Tp.
Survey commenced April 18th 1895.

From the cor. to secs. 29, 30, 31 and 32 herein
before described, I run N 84° 0' W as a true
line bet secs 30 and 31

1/4 15° 45' E

48.00 Through dense artemesia undergrowth.
40.00 Set a gypsum stone 18x12x3 ins 12 ins
in the ground for 1/4 sec cor, marked
1/4 on N face, dug pits 18x18x12 ins E and W
of stone 5 1/2 ft dist, and raised a mound
of earth 1 1/2 ft high 3 1/2 ft base alongside.
70.80 Corner 15 ft deep 40 ft wide bears N 10° E.
- 83.65 Intersect W bdy of Tp 9.37 chs D of cor to
secs 25 and 36 @ 12 E. Set a sandstone
20x12x4 ins 15 ins in the ground for closing
cor to secs 30 and 31 marked with
5 grooves on N, 6 grooves on E, 1 groove
on S and C Cor W face, dug pits
2 1/4x18x12 ins crosswise on each line
N and S 3 ft and E of stone 7 ft dist and
raised a mound of earth 2 ft high
4 ft base E of cor.
Land rolling; soil sandy loam 2nd
rate. No timber
Dense artemesia undergrowth on
83.65 chs.

From the cor to secs. 19, 20, 29 and 30 herein
before described, I run N 84° 0' W as a true
line bet secs. 19 and 30

Subdivision of T 170 R 13 E. S. D. M.

	Va 15° 45' E
2.50	Through dense Artemesia undergrowth.
16.00	Coule ⁱ bears N
32.20	Coule ⁱ bears N. E. S. E.
40.00	Coule ⁱ 60 ft wide 10 ft deep bears S. Set a sandstone 15x12x4 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N face; dug pits 18x18x12 ins E and W of stone 5 1/2 ft dist and raised a mound of earth 1 1/2 ft high. 3 1/2 ft base alongside.
60.00	Coule ⁱ 60 ft wide bears N. E.
80.70	Point of hill 100 ft high bears N; descend
- 82.94	Intersect W ldy of Tp 9.26 chs 0 of cor to secs 24 and 25 DR 13 E. Set a sandstone 20x10x4 ins 15 ins in the ground for closing cor to secs. 19 and 30 marked with 4 grooves on N, 6 grooves on E, 2 grooves on D and C on W face. Raised a mound of stone 1 1/2 ft high 2 ft base E of stone. Pits in.
	Land rolling and level; soil sandy and gravelly 2 nd and 3 rd rate.
	No timber.
	Dense Artemesia undergrowth on 82.94 chs.
	From the cor. to secs. 17, 18, 19 and 20 herein before described I run N 84° 0' W on a true line bet secs 18 and 19.
	Va 15° 50' E.
22.00	Enter heavy scrub cedar timber; ascend. Top of hill bears N. E.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 17x10x5 ins in a mound of stone 1 1/2 ft high, 2 ft base for 1/4 sec. cor. marked 1/4 on N face. Pits in. No bearing trees available.
41.60	Wash in gulch bears N. E.
76.00	Top of ledge 125 ft high bears N and S.
79.50	Coule ⁱ bears from N 38 W to N 38 W
- 82.40	Intersect W ldy of Tp 9.22 chs 0 of cor

Subdivision of T. 17. S. R. 13 E. D. S. M.

to secs. 13 and 24 R 12 E hereinbefore described. It is impracticable to set a stone in the ground, I therefore set a sandstone 20x10x8 ins in a mound of stone 17 ft high 2 ft base for closing cor to secs. 18 and 19 marked with 3 grooves on N. 6 grooves on E. 3 grooves D and C.C. on W face. Pits叩.

No bearing trees available.

Land mountainous and rolling. Soil stony and sandy 3rd rate. Heavy scrub cedar timber on 82.40 chs.

From the cor to secs. 7, 8, 17 and 18 hereinbefore described I run $784^{\circ} 0' W$ on a true line bet. secs. 7 and 18

to $15^{\circ} 50' E$

Ascend

- 4.00 Top of steep ascent. Enter dense artemesia in degrowth.
- 24.50 Descend bluff bears N.E. and S.E.
- 27.60 Left bank of Price river set a post 4x4 ins 4 ft long with marked stone 12 ins in the ground for witness point marked W.P. on W face; dug a pit 3x3x1 ft 8 lbs E and raised a mound of earth 2 ft high, 4 $\frac{1}{2}$ ft base around post.
- 30.65 Right bank of Price river set a post 4x4 ins 4 ft long with marked stone 12 ins in the ground for witness point marked W.P. on E face, dug a pit 3x3x1 ft 8 lbs W, and raised a mound of earth 2 ft high 4 $\frac{1}{2}$ ft base around post.
- Ascend steep bank.
- 33.80 Top of mesa bears N.E. and S.E.
- 40.00 Marked cross at exact cor joint with $\frac{1}{4}$ m sandstone ledge for $\frac{1}{4}$ sec cor; raised a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base alongside.
- 43.50 Wash in gulch 25 ft deep bears N.E.
- 73.60 Wash in gulch bears $770^{\circ} W$.

Subdivision of T. 17 D. R. 13 E. S. L. M.

79.16

Top of cliff 200 ft above Price river. It is impracticable to run this line further. I therefore set a sandstone 16x10x10 ins. 11 ins in the ground for witness point to closing cor to secs 7 and 18 marked with 2 grooves on N. & grooves on E. 4 grooves on S and W.C. C.C. on W face. Raised a mound of stone 1 $\frac{1}{2}$ ft high 2 ft base E of cor. stone. Land hilly and rolling; soil gravelly. 3rd rate. No timber.

Dense artemesia undergrowth on 75.16 chs.

From the cor to secs 5, 6, 7 and 8 hereinbefore described I run N 89° 0' W on a true line bet. secs. 6 and 7

Va 15° 50' E

2.50

Gulch bears S.

10.00

Point of ridge bears N.W.

21.25

Wash in gulch 50 ft deep bears N.E.

40.00

Set a sandstone 18x9x6 ins. 12 ins in the ground for $\frac{1}{4}$ ac. cor. marked $\frac{1}{4}$ on N face; raised a mound of stone 1 $\frac{1}{2}$ ft high 2 ft base alongside. Pits imp.

81.60

Ascend over steep broken ground. Intersect W side of sp. 9.40 Lts. S of cor to secs 1 and 12 R 13 E hereinbefore described. It is impracticable to set a stone in the ground. I therefore set a sandstone 14x10x4 ins in a mound of stone 1 $\frac{1}{2}$ ft high 2 ft base for closing cor to secs. 6 and 7 marked with 1 groove on N. & on E, 5 on S and C.C. on W face. Pits imp.

Land mountainous; soil, stony & th rate. No timber.

Mountainous on 81.60 chs.

April 18th. 1890

Subdivision of T. 17 R. 13 E.

Note. I am unable to take the meridional observations on the sun for latitude, as required by the Manual, as the meridional altitude of the sun at this time of year is greater than the greatest vertical angle to which I can direct my telescope with the diagonal eyepiece attached.

I take it, that these observations are intended as a test of the adjustments of the solar attachment when that is used, or when direct observations on the sun for the meridian are taken, as in this case, of the proper adjustment of the telescope level, horizontal cross hair and vertical arc.

In place of the required observations for latitude, I have used the ordinary peg adjustment for the level and horizontal cross hair; by this method, an error of .01 ft in 200 ft horizontal, or an angular error of about $10''$ of arc, can be readily detected.

This is far within the ^{least} limit of error obtainable by taking a meridional observation on the sun at a known latitude with an ordinary engineer's transit.

General Description.

This township is mostly mountainous excepting the N.E. and S.W. portions.

and small areas along Price river. The mountains are composed mostly of soft coarse sandstone.

The N.E. portion has a shale formation.

The S.W. portion has a red sandy soil underlaid largely, in secs. 30, 31 and 32 by beds of gypsum at a depth of from 2 to 12 ft below the surface.

The bottoms along Price river have a rich alluvial soil.

Subdivision of T 17 S R 13 E D.S.M.

There is no timber of value, in this township the cedar is of a dwarf growth suitable for fuel only.

The mean declination of the Plat, the average of four observations is $15^{\circ} 4' 3''$ E
The only water in the Tp is in Price river and a few alkali springs in Grassy trail creek.
James Stammill (D.E. No 2012) and John Egan (D.E. 2013) have abandoned their claims.
The applicants for this survey all have permanent improvements and are located as follows:

J. G. Randall in Sec 36. he has a log cabin some fencing and 10 acres of land plowed.

J. W. Coleman in Sec 25 - has 20 acres under cultivation, he has a log house and mile of fence.

Jacob Coleman has about 30 acres under cultivation in sec 23

Eli Randall cultivates 25 acres in sec 25

All of these settlers irrigate their lands with water taken from Price river.

J. Curtis is located in sec. 9. He cultivates 20 acres of land has a log house, mile of fence and irrigating ditch.

There are four cliff dwellings in sec 9 about 30 chs. S.E. of Curtis cabin.

Frank E. Baxter

U. S. Dep. Surveyor

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A list of the names of the individuals employed by _____, U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the _____

Meridian, in _____, showing
the respective capacities in which they acted:

Final Oath of Assistants:

We hereby certify that we assisted _____, U. S. Deputy Surveyor, in surveying all those parts or portions of the _____

Meridian, _____, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for _____

Subscribed and sworn to before me this _____ }
day of _____, 18 ____ }



I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, the surveying manual, and the laws of the United States, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

U. S. Deputy Surveyor.

Subscribed and sworn to before me this _____ }
day of _____, 18_____. }



Approval.

Office of the U. S. Surveyor General,

Salt Lake City, Utah, June 16, 1895

The foregoing field notes of the survey of ~~The subdivisions of Township 17
South Range 13 East of the Salt Lake Base and
Mendon, Utah, January~~
196, dated *January 18th*, 1894, having been criticall
examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

executed by

Hans G. Baster

under his Contract No. *196*, dated *January 18th*, 1894, having been criticall
examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Wood

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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W.H.
S.J.B.

S.J.B.

FIELD NOTES

OF THE SURVEY OF

The Retracement of The South Boundary
 and The Survey of the North Boundary of
R 17 N R 14 E

Of the Salt Lake Meridian,

Utah Territory

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

Under his Contract No. 196, dated June 18th, 1894.

Survey commenced June 6th, 1894.

Survey completed June 12th, 1894.

Contract No. 196
 6 13 2.00000
 " 14. 2.00000

Names and Duties of Assistants.

Daniel Norris	Chairman
Wallace Watson	Chairman
Edward Redmond	Assistant
Don Johnson	Assistant

INDEX DIAGRAM.

Township 17 S, Range 14 E

4	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
x 13		2			

Meanders Page

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman

Subscribed and sworn to before me this }
day of , 18 . }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this , Axeman.
day of , 18 . }

, Axeman.

Retracement of D Bdy 9, 17 D.R., 4 E Ad. No.

Survey commenced June 6th 1894
Preliminary to going to work I test
the adjustments of my instrument
and the length of my chain and find
them correct.

I set my instrument over the cor to Dps
17 and 18 D. R. sec. 13 and 14 E herein before
described and turn $89^{\circ} 05' 2''$ right from
the E bdy of 9, 17 D.R. 13 E as reestablished
by myself and which bears $N 0^{\circ} 08' E$.
Thence I run E on a blank line bet secs.
6 and 31

Via $15^{\circ} 40' E$.

80.40 P. Lord's cabin bears $N 46^{\circ} 50' E$ 280 rods dist.
Intersect N and S line 40 rods N of cor to
secs. 5, 6, 31 and 32, which is a sandstone
 $15 \times 12 \times 3$ ins firmly set and marked
with 5 notches on E and 1 notch on W edge.

Commencing at this stone I run E on a
blank line bet secs 32 and 5

Via $15^{\circ} 40' E$

79.83 Intersect N and S line 76 rods N of cor to secs.
4, 5, 32 and 33, which is a sandstone $14 \times 10 \times 6$
ins firmly set in a mound of stone,
marked with 4 notches on E and 2 notches
on W edge.

The total falling in the 2 miles being 40476
 $= 116$ rods, I set my instrument over the
cor. stone and run $D 89^{\circ} 35' E$ on a random
line bet secs. 4 and 33

Via $15^{\circ} 40' E$

This being the course of a line joining
the township cor with the cor. just above
described.

40.00 Intersect $\frac{1}{4}$ sec. cor., which is a sandstone
 $22 \times 20 \times 12$ ins firmly set in a mound of stone.
marked $\frac{1}{4}$ in N face.

80.00 I make diligent search for cor to secs.
34, 33 and 34 without success.

Retacement of S. Body 9 1/2 S. R 14 E. Ad. No.

I set a temporary cor. at this point.

D 89°35' E on a random line bet secs. 3 and 34

Fa 15°40' E

after diligent search I fail to find either the 1/4 or sec. cor. at 40 and 80 chs. respectively.

80.00 The end of my line is at the base of the Book Cliffs which it is impossible to ascend; I therefore discontinues my line at this point.

Rp 18 S R 14 E being subdivided, I do not alter the position of the corners found, and reestablish the lost corners on my random line as the true line.

It is impracticable to set stone in the ground; I therefore set a sandstone 18x7x3 ins. in a mound of stone 1 1/2 ft high, 2 ft base, for the cor. to secs. 2, 3, 34, and 35, marked with 2 notches on E, and 4 notches on Wedge. Pits imp.

Hence I run N 89°35' W on a true line bet. secs 3 and 34

Fa 15°36' E

Couler bears S.W.

Couler 20 ft wide 2 ft deep bears S.W.

40.00 It is impracticable to set stone in the ground; I therefore set a sandstone 16x9x4 ins. in a mound of stone 1 1/2 ft high, 2 ft base, for 1/4 sec. cor., marked 1/4 on N face. Pits imp.

41.00 Ridge bears N.E.

Couler bears S.W.

70.60 Wash in gulch 50 ft deep bears S

77.00 Wash in gulch bears S.

80.00 It is impracticable to set a stone in the ground, I therefore set a sandstone 20x9x4 ins in a mound of stone 1 1/2 ft high 2 ft base for cor. to secs. 3, 4, 33 and 34, marked with 3 notches on E, and 3 notches on W

Replacement of S. Bdy 9th S.R. 14 E. S.L.M.

edge. Hills imp.

Land mountainous and broken; soil, shale, 3rd rate. No timber.

Mountainous on 40.000 chs.

N 89° 35' W on a true line bet. secs 4 and 53

Vt 15° 40' E

Ascend.

2.00 Low ridge bears N.

14.30 Coulee 50 ft wide 25 ft deep bears S.

27.50 Top of mesa bears N and S.

37.50 Coulee 60 ft wide 20 ft deep bears S

40.00 The 1/4 sec. cor bet secs 4 and 53 herein-before described.

Land hilly; soil, shale and clayey loam 3rd and 4th rate. No timber.

June 6th 1894

My instructions require me to run the E bdy from the S.E. cor of the T.P.

The N bdy is to be run W on a random line from the N.E. cor of the T.P. If my random line intersects the cor to secs. 4, 5, 32 and 33 at the distance of 4 miles I am to establish it as the true line. If it does not, then I am to run the random line W to the W bdy of the T.P. noting the falling, and run back on a true line from the N.W. cor of the T.P.

It is impossible to run any portion of the E bdy of the T.P., therefore go to the N.W. cor and run E with N bdy. of the township.

Impassable barriers prevent the survey of the E. two tiers of secs. I am subdividing the T.P. I run the meridional sec lines parallel to the W bdy of the T.P. as provided for in my instructions for the survey of T. 19 S. R. 26 E. Knowing there are no cor. on the N bdy, I make the W mil on that bdy equal in length to the W mils of the S bdy.

North Bdy of T 17 S. R 14 E S. S. W.

I begin at the cor to 9 ps 16 and 17 & R's 13 and 14 E, which is a cor. herein before described and run E on a blank line bet secs 6. and 31

Va $15^{\circ} 40' E$
search

37.60 After diligent search I fail to find the $\frac{1}{4}$ sec. cor.
77.60 After diligent search I fail to find the cor to secs. 5, 6, 31 and 32. Being unable to find either the $\frac{1}{4}$ sec cor or the sec. cor. E of this and no subdivisional lines having been closed upon this bdy. I return to the township cor.

Thence I run E on a line line bet secs. 6 and 31

Va $15^{\circ} 40' E$

Through dense artemesia undergrowth

- 7.60 Point of low ridge bears N.
26.20 Couleⁱ 20 ft wide, 10 ft deep bears S.
29.40 Couleⁱ 8 ft wide, 4 ft deep bears S.W.
38.60 Couleⁱ bears S.W.
40.40 Set a sandstone 14x9x5 ins 10 ins in the ground for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on N face; dug pits 18x18x12 ins E and W of stone, 5 $\frac{1}{2}$ ft dist, and raised a mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base alongside.
44.00 Couleⁱ 10 ft wide, 4 ft deep bears S.W.
77.40 Couleⁱ 10 ft wide 5 ft deep bears S
80.40 Set a sandstone 20x9x9 ins 15 ins in the ground for cor. to secs. 5, 6, 31 and 32, marked with 5 notches on E and 1 notch on W. edge; raised a mound of stone 1 $\frac{1}{2}$ ft high 2 ft base, alongside. Pits imp. Land rolling, soil sandy and clayey loam 3rd rate. No timber
Dense artemesia undergrowth at 80.40 chs.

E on a line line bet secs. 5 and 32

Va $15^{\circ} 40' E$

Through dense artemesia undergrowth

North Ridy 9.17 P.R. 14 E. D.C.M.

1.80	Coulee 20 ft wide, 5 ft deep bears S.
25.40	Wash in gulch 70 ft wide 30 ft deep bears S.
27.40	Ridge bears N and S.
40.00	Set a sandstone 15 x 9 x 6 ins., 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N face; dug pits 18 x 18 x 12 ins. E and W of stone, 5 1/2 ft deep and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside.
40.50	Coulee 8 ft wide, 3 ft deep bears S.
49.00	Wash in gulch bears S.
53.70	Wash in gulch bears S.
68.00	Ridge bears N and S.
75.00	Coulee 40 ft wide 10 ft deep bears S.
80.00	It is impracticable to set stone in the ground, I therefore set a sandstone 18 x 9 x 6 ins. in a mound of stone 1 1/2 ft high 2 ft base for cor. to secs. 44, 5, 32 and 33 marked with 4 notches on E, and 2 notches on W edge. Pits imp. Sand broken, soil, sandy loam 3 rd rate Dense artemesia undergrowth on 80.000 ha

On a line line bet secs. 4 and 33

N 15° 40' E.

2.80	Through dense artemesia undergrowth
10.00	Top of ridge 100 ft high bears N and S.W.
13.00	Wash in gulch 100 ft wide 100 ft deep bears S.W.
23.50	Over nearly level ground.
36.00	Coulee 20 ft wide, 10 ft deep bears S.W.
40.00	Enter broken ground
43.30	Set a sandstone 14 x 9 x 6 ins. 9 ins. in the ground for 1/4 sec. cor., marked 1/4 on N face; raised a mound of stone 1 1/2 ft high, 2 ft base alongside. Pits imp.
49.30	Wash in gulch 30 ft deep bears S.
53.00	Leave same gulch.
63.00	Ridge 60 ft high bears S.W.
71.00	Coulee bears S.W.
80.00	Top of mesa bears S.W.
	It is impracticable to set stone in the

North Bdry T 17 N. R 14 E. D.S.W.

ground, I therefore set a sandstone 18x14x5 ins in a mound of stone 1½ ft high, 2 ft base, for cor. to secs. 3, 4, 33 and 34 marked with 3 notches on E and 3 notches on W edge. Pilō imp.

Land mountainous; soil, sandy, 3rd rate.
No timber.

Dense artemesia undergrowth on 80.00 chs
Mountainous on 57.00 chs.

E on a true line bet. secs 3 and 4
Va 15° 40' E

Through dense artemesia undergrowth

5.00 Edge of mesa bears S.
8.00 Wash in gulch 400 ft wide, 100 ft deep bears S.
Leave undergrowth.

11.80 Top of hill bears S.
25.00 Wash in gulch 25 ft deep bears S.W.
29.80 Ridge 125 ft high bears N.E.; thence along
S slope of ridge.

40.00 Set a sandstone 15x14x6 ins, 10 ins in the
ground for ¼ sec. cor. marked ¼ on N face;
raised a mound of stone 1½ ft high 2 ft
base alongside Pilō imp.

51.80 Wash in gulch bears from N.E.
58.00 Wash in gulch 30 ft deep bears S.W.
80.00 It is impracticable to set stones in the
ground, I therefore set a sandstone
18x9x7 ins in a mound of stone 1½ ft
high, 2 ft base for cor. to secs. 2, 3, 34 and
35, marked with 2 notches on E and
4 notches on W edge. Pilō imp.

Land mountainous; Soil. stony 4th rate.
No timber.

Dense artemesia undergrowth on 8.00 chs
Mountainous on 80.00 chs.

This cor. is at the base of the Book Cliffs
which it is impossible to ascend, which
causes me to abandon my line at
this cor.

June 12th 1894.

For general description see subdivisional
notes of this township.

Frank E. Baxter
U.P. Deputy Surveyor.

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ist of Names.

A list of the names of the individuals employed by
....., U. S. Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of the

..... Meridian, in, showing
the respective capacities in which they acted:

Final Oath of Assistants:

We hereby certify that we assisted
....., U. S. Deputy Surveyor, in surveying all
those parts or portions of the

..... Meridian,, as are represented in the
pregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all
parts, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
according to the instructions furnished by the U. S. Surveyor General for

Subscribed and sworn to before me this }
day of , 18 } .



130 Bls

Final Oath of U. S. Deputy Surveyor.

I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that the corners of said survey have been established and perpetuated in strict accordance with the surveying printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

U. S. Deputy Surveyor

Subscribed and sworn to before me this _____
day of _____, 18_____ }



Approval.

Office of the U. S. Surveyor General,

Salt Lake City, Utah January 6, 1895.

The foregoing field notes of the survey of _____
of Township 17 South Range 14 East of
the Salt Lake Base and Meridian, El Paso
Territory

executed

Frank E. Barker

under his Contract No. 194, dated January 18th, 1894, having been critic
examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe,
hereby approved.

George W. Gould

U. S. Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in *J. T. S. R. II.*
of the Salt Lake Base and Meridian, has been correctly copied from the original notes on file in this office.

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H.D.

J. J. B.

FIELD NOTES

OF THE SURVEY OF

The Subdivisional Lines of
 Township 17 South, Range 14 East

Of the Salt Lake Meridian,

Utah Territory

AS SURVEYED BY

Frank C. Baxter U. S. Deputy Surveyor,

Under his Contract No. 196, dated January 18th, 1894

Survey commenced June 7th, 1894

Survey completed June 13th, 1894

4 42 30
 1 57 20
 24 13 01

Names and Duties of Assistants.

Samuel Morris Chairman
Wallace Waterman Chairman
Edward Redmond Assessor
Dor Johnson Collector

INDEX DIAGRAM.

Township 17 S., Range 14 E.

6	27	5	26	4	29	3	28	2		1	
7		13		25		29					
7	7	8	13	9	24	10	27	11		12	
6		12		19		24					
18	6	17	12	16	18	15	23	14		13	
5		11		18		22					
19	5	20	10	21	17	22	23			24	
4		10		17		21					
30	3	20	9	24	16	27	21	26		25	
1		9		16		20					
31	1	22	8	23	14	34	19	35		36	

Meanders Page.....

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman

Subscribed and sworn to before me this _____
day of _____, 18 . }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this , Axeman.
day of , 18 . } , Axeman.

Subdivision of T. 17 D. R. 12 E. D. S. M.

Natural barriers make it impossible to survey the E. two tiers of sections. I therefore subdivide this township by running the meridional section lines parallel to the W. boundary of the township as provided for in my instructions for the survey of T. 19 D. R. 26 E.

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Subdivision of T 17 S R 14 E S.L.M.

Survey commenced June 7th 1894.
I beg in at the Wbdy of the Tp at the cor to
secs. 31 and 32 which is a stone herein-
before described and run N 0° 9' E
bet secs 31 and 32, parallel to the Wbdy
of Tp.

Va 15° 40' E

S.E. cor J. Annilleris fence bears D 89 15' W
8.78 chs. dist; his house bears N 22° 40' W

1.40 Wagon road bears N 30° W
19.50 J. Annilleris house bears N 67° 50' W
40.00 Set a sandstone 15x9x4 ins 10 ins in the
ground for 1/4 sec. cor., marked 1/4 on
W face; dug pits 18x18x12 ins. N and S
of stone, 5 1/2 ft dist and raised a mound
of earth 1 1/2 ft high, 3 1/2 ft base alongside.
Ascend low hill

76.00 Top of hill descended to

80.00 Set a sandstone 20x10x10 ins, 15 ins in the
ground, for cor to secs. 29, 30, 31 and 32
marked with 1 notch on S, and 5 notches
on E edge; dug pits 18x18x12 ins, in each
sec, and raised a mound of earth 2 ft
high, 4 1/2 ft base alongside.
Land nearly level; soil sandy loam 1st and
2nd rate. No timber. Some underbrush on line.

N 89° 35' W on a random line bet secs.
30 and 31

Va 15° 40' E

40.00 Set a temporary 1/4 sec. cor.

80.68 Intersect Wbdy of town line 35 ltrs.

N of cor to secs 25, 30, 31 and 36 which is a
corner hereinbefore described.

Thence I run D 89° 50' E, in a true line bet.
secs 30 and 31

Va 15° 40' E

Through cottonwood timber and dense
undergrowth

1.80 Left bank of Pries river, set a post 3x3 ins.
4 ft long, with marked stone, 12 ins in the

Subdivision of 9 1/2 A.R 14 E. D.L. M.

- | | |
|-------|---|
| 3.80 | <p>ground for witness point, marked W.P. on E face, dug a pit 3x3x1 ft 8 lms W of post and raised a mound of earth 2 ft high, 4$\frac{1}{2}$ ft base around post.
 Right bank of Price river, set a post 3x3 ins, 4 ft long 2 ft in the ground for witness point marked W.P. on W face, from which;
 A cottonwood tree ^{5 ins in diam}, marked with blaze and notch bears N 19° W 19 lms dist.
 A cottonwood tree 4 ins in diam. marked with blaze and notch bears S 78° 20' E 61 lms dist.</p> |
| 11.36 | <p>Right bank of Price river, it is impracticable to set a stone in the ground, I therefore set a sandstone 18x12x5 ins in a mound of stone 1$\frac{1}{2}$ ft high 2 ft base for witness point marked W.P. on E face.
 Pits imp.</p> |
| 13.40 | <p>Left bank of Price river, set a post 3x3 ins, 4 ft long, with marked stone, 2$\frac{1}{2}$ ins, in the ground for witness point marked W.P. on W face, from which
 A cottonwood tree 8 ins in diam, marked with blaze and notch. bears N 5° 25' W 34 lms dist. No other tree in limit</p> |
| 17.90 | <p>Left bank of Price river set a post 3x3 ins, 4 ft long, with marked stone, 2$\frac{1}{2}$ ins in the ground for witness point, marked W.P. on E face, dug a pit 3x3x1 ft 8 lms W of post and raised a mound of earth 2 ft high, 4$\frac{1}{2}$ ft base around post.</p> |
| 19.41 | <p>Right bank of Price river set a post 3x3 ins, 4 ft long, 2$\frac{1}{2}$ ins in the ground for witness point marked W.P. on W face, from which
 A cottonwood tree, 7 ins in diam, marked with a blaze and notch bears S 3° E 45 lms dist.
 A cottonwood tree 9 ins in diam marked with a blaze and notch bears N 05° W 10 lms dist.</p> |

Sub-division of T. 17 S. R. 14 E. P. L. M.

- 21.62 Right bank of Price river set a post 3x3 ins.
4 ft long, 24 ins in the ground for witness
point marked W. P. on E face, from which
a cottonwood tree 3 ins in diam., marked
with a blaze and notch bears $037^{\circ}W$ 57
ft dist.
A cottonwood tree 4 ins in diam., marked
with blaze and notch, bears $W36^{\circ}30'W$
178 ft dist.
J. Ward's house bears $W50^{\circ}W$; Group J. Ward's
house $W52^{\circ}W$ 3.50 chs to J. Gobello's house.
- 22.89 Left bank of Price river set a post 3x3 ins.
4 ft long, 24 ins in the ground for witness
point, marked W. P. on W face; from which
a cottonwood tree 10 ins in diam., marked
with blaze and notch bears $W50^{\circ}E$ 44 ft
dist. No other tree in limit
- 26.00 Leave cottonwood timber and enter dense
artemesia undergrowth.
- 26.20 J. Ward's house bears $W43^{\circ}50'W$. J. Nelson's
house bears $018^{\circ}45'E$
- 27.10 Wagon road bears $010^{\circ}E$
- 37.82 Fence bears N and O.
- 40.68 Set a post 3x3 ins 3 ft long, with marked
stones 12 ins in the ground for 1/4 sec. cor.,
marked $\frac{1}{4}P$ on N face; dug pit 18x18x12
ins E and W of post 5 ft dist, and raised
a mound of earth 1/2 ft high, 3 1/2 ft
base around post.
- 42.88 J. Ward's house bears $W72^{\circ}30'W$
J. Nelson's house bears $042^{\circ}W$
- 58.00 Top of hill
- 70.20 Top of low hill; descend to
- 80.68 The cut to secs. 29, 30, 31 and 32
Land hilly and river bottom; soil sandy loam
1st rate on bottom, 3rd rate on hilly parts.
Dense underbrush or cottonwood
timber on 80.68 chs.

$W0^{\circ}09'E$ bet secs. 29 and 30

$W0^{\circ}15'40'E$

Subdivision of T17D R14 E. D.L.M.

	Through dense artemesia undergrowth
15.70	Salt Lake wagon road bears N.W.
40.00	Set a sandstone 15x10x6 ins, 10 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face; raised a mound of earth $1\frac{1}{2}$ ft high 2 ft base alongside. Pits imp.
43.65	Present track R. G. W. Ry bears N10°W (on curve)
58.90	Coule 20 ft wide 6 ft deep bears S.E.
80.00	Set a sandstone 14x12x6 ins 10 ins in the ground for cor to secs. 19, 20, 29 and 30 marked with 2 notches on S, and 5 notches on E edge; dug pits 18x18x12 ins, in each sec., $5\frac{1}{2}$ ft dist and raised a mound of earth 2 ft high $4\frac{1}{2}$ ft base alongside. Land nearly level; soil clayey loam 2nd rate. No timber. Dense artemesia undergrowth on 8000 chs.

	N89°50'W on a random line bet. secs. 19 and 30 Va 15° 40' E
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.72	Intersect W. bdy. of $\frac{1}{4}$ of 21 lots S of cor to secs 19, 20, 24 and 25 which is a cor. herein-before described. Thence run, N89°41'E on a true line bet secs 19 and 30 Va 15° 40' E
9.00	Ascending S slope of hill Top of ridge, descend. Enter dense artemesia undergrowth
30.20	Salt Lake wagon road bears N10°W
40.72	Set a sandstone 14x12x6 ins, 10 ins in the ground for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on N face, dug pits 18x18x12 ins. E and W of stone, $5\frac{1}{2}$ ft. dist, and raised a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base alongside Present track R.G.W.Ry bears S 15° E
55.40	Coule 50 ft wide, 2.5 ft deep bears N.
60.90	Coule bears N.
80.72	The cut to secs. 19, 20, 29 and 30. Land mountainous and rolling; soil clayey.

Subdivision of 9.17 A. R. 14 E. Ad. W.

2nd and 3rd rate. No timber

Mesa top on 40.00 chs.

Dense artemesia undergrowth on 71.72 chs. +

N 0° 09' E bet secs. 19 and 20

to 15° 40' E

Through dense artemesia undergrowth

38.00 Coule's bears W.

40.00 Set a sandstone 14x12x5 ins. 9 ins in the ground. for 1/4 sec. cor. marked 1/4 on W face, dug pit 18x18x12 ins. Hand of stone, 5 1/2 ft dist and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside.

42.00 Coule's 5 ft deep 8 ft wide bears S.W.

Foot of mesa.

58.20 Top of mesa bears N.E.

76.50 Wash in gulch 40 ft deep bears W

80.00 Set a sandstone 20x10x6 ins 15 ins in the ground for cor to secs. 17, 18, 19 and 20 marked with 3 notches on N and 5 notches on E edge; raised a mound of talus 1 1/2 ft high 2 ft base alongside. Pits imp. Land hilly and rolling; soil, clayey 2nd rate. No timber

Dense artemesia undergrowth on 80.00 chs.

N 84° 41' W on a random line bet. secs 18 and 19

to 15° 40' E.

40.00 Set a temporary 1/4 sec. cor.

80.66 Intercept W body of 9 1/2 11 1/2 of cor to secs. 13, 18, 19 and 24, which is a corner herein-before described.

Thence I run N 89° 48' E on a true line bet secs. 18 and 19

to 15° 40' E

Descend gradually through dense artemesia undergrowth

18.20 Coule's bears S.E.

31.70 Salt Lake wagon road bears W.

33.10 Coule's 6 ft deep 10 ft wide bears N.

40.66 Set a sandstone 14x12x4 ins. 9 ins in the

Subdivision of T. 17 S. R. 14 E. D. L. M.

	ground for $\frac{1}{4}$ acre cor., marked from N face; raised a mound of stone $1\frac{1}{2}$ ft. high, 2 ft. base alongside. Pits info.
52.80	Present track R.R. W. Ry bears N. 15° E.
57.29	Coulee 30 ft wide, 10 ft deep bears S. W.
58.30	Foot of hill ascend.
68.20	Top of hill
73.70	Wash in gulch 50 ft deep bears S.
74.66	The cor to secs. 17, 18, 19 and 20.
	Land mountainous and rolling; soil clayey Dense artemesia undergrowth on 80.66 chas. Mountainous on 22.36 chas. No timber.

N $0^{\circ} 0' E$ bet secs. 17 and 18

to $15^{\circ} 40' E$

	Through dense artemesia undergrowth.
5.00	Gulch 25 ft deep bears W.
11.00	Head of gulch bears S. W.
19.30	Wash in gulch bears W.
23.00	Wash in gulch 75 ft deep bears W.
29.50	Ridge bears E and W
33.20	Foot of hill.
41.00	Set a sandstone 12x10x4 ins 8 ins in the ground for 1/2 acre cor., marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins. W and S of stones 5 $\frac{1}{2}$ ft dist., and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside.
43.80	Coulee 8 ft wide 4 ft deep bears S. W.
80.00	Set a sandstone 14x10x8 ins. 9 ins in the ground for cor. to secs. 7, 8, 17 and 18, marked with 4 notches on S, and 5 notches on E edges; dug pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft dist. and raised a mound of mottled 2 ft high, 4 $\frac{1}{2}$ ft base alongside.
	Land mountainous and rolling soil grassy and clayey. 3 rd and 2 nd rates.
	Dense artemesia undergrowth on 80.00 chas. Mountainous on 33.20 chas. No timber.

N $89^{\circ} 48' W$ on a random line between 7 and 18

to $15^{\circ} 37' E$

Subdivision of T. 17 S. R. 14 E. S. L. M.

40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.63	Intersect W bdy of tp 30 ft N of cor to secs 7, 12, 13 and 18, which is a cor. Lever before described. Thence down, $1189^{\circ}59' E$ on a true line bet secs 7 and 18 $Va 15^{\circ}37' E$
34.60	Through dense artemesia undergrowth Coulter bears S. E.
40.63	Set a sandstone 12x8x4 ins 8 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins. E and W of stone, $5\frac{1}{2}$ ft dist. and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base, alongoids. Dalt Lake wagon road bears N.
56.60	Precut track R. G. W. Ry bears $1120^{\circ}W$
90.63	Thence cor to secs. 7, 8, 17 and 18. Land rolling; soil clayey 3 rd rate. No timber. Sparse artemesia undergrowth on 80.63 chs.

$110^{\circ}09' E$ bet. secs 7 and 8.

$Va 15^{\circ}37' E$

Through dense artemesia undergrowth

36.00	Coulter bears E.
40.00	Set a sandstone 20x10x5 ins 13 ins in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins. N and S of stone, $5\frac{1}{2}$ ft dist. and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongoids. Set a sandstone 17x12x7 ins, 12 ins in the ground for cor. to secs. 5, 6, 7 and 8 marked with 5 notches on N and 5 notches on E edge; dug pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft dist and raised a mound of earth 2 ft high $4\frac{1}{2}$ ft base alongoids.
80.00	Rised gradually according to N., soil, sandy loam and clayey, 2 nd and 3 rd rate. Sparse artemesia undergrowth on 80.00 chs. No timber.

$1189^{\circ}59' W$ on a random line bet. secs. 6 and 7

$Va 15^{\circ}37' E$

Subdivision of 917 A. R. 14 E. S. L. M.

40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.67	Intersect W side of 9p. 16 ths S. of cor. to secs. 16, 7 and 12 which is a cor. herein before described. Thenel I run, N $89^{\circ}05'4''$ E on a true line bet. secs 6 and 7. Va $15^{\circ} 37' E$
6.20	Through dense artemesia undergrowth. Salt Lake wagon road bears N $10^{\circ}W$.
13.04	Present track R. G. W. Ry bears N $29^{\circ}W$.
15.40	Coule ⁱ 25 ft wide 7 ft deep bears S.W.
40.67	Set a sandstone 16x6x6 ins 10 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins E and W of stone, 5 $\frac{1}{2}$ ft dist. and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base along sides.
50.70	Ascend over broken ground to
80.67	The cor to secs. 5, 6, 7 and 8. Land rolling and level; soil sandy loam and clayey $\frac{2}{3}$ rd and $\frac{1}{3}$ rd rate. No timber. Dense artemesia undergrowth on 80.67th.
June 7th 1894	
11.40	I begin at the N side of the 9p. at the cor to secs 32 and 33, which is a cor. herein before described.
32.00	Thenel I run, N $0^{\circ}09' E$ bet secs. 32 and 33 Va $15^{\circ}40' E$
40.00	Through dense artemesia undergrowth Coule ⁱ 3 ft wide, 1 ft deep bears W.
49.50	Coule ⁱ bears W.
65.36	Set a sandstone 18x12x5 ins, 12 ins in the ground for cor to secs. 28, 29, 32 and 33 marked with 1 notch on S. and 4 notches on E edge; dug pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft.
80.00	

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Subdivision of 9.17 A. R. 14 E. S.L. M.

dist. and raised a mound of earth
2 ft high h, 4½ ft base alongside.
Land nearly level; soil, sandy loam and
clayey, 2nd rate. No timber.
Dense artemesia undergrowth on 80.00 chs.

N 89° 35' W on a random line bet secs. 29 and 32
Va 15° 40' E

- 40.00 Set a temporary ¼ sec. cor.
79.60 Intersect N and S line 7 1/2 Ms S of cor to secs.
29, 30, 31 and 32.
Thence I run, N 89° 32' E on a true line bet. secs.
29 and 32
Va 15° 40' E
Through dense artemesia undergrowth
Present track R.G. W. Ry. bears N 5° W!
8.60 Salt Lake wagon road bears N.
16.00 Coules 50 ft wide 12 ft deep bears N.E. from N.E.
39.80 Set a sandstone 15x6x6 ins. 10 ins in the ground
for ¼ sec. cor., marked ¼ on N face; dug pits
18x18x12 ins. E and W of stone 5½ ft dist, and
raised a mound of earth 1½ ft high h, 3½
ft base alongside.
79.60 The cor. to secs. 28, 29, 32 and 33.
Land nearly level; soil, sandy loam 1st rate.
Dense artemesia undergrowth on 79.60 chs.
No timber.

N 0° 09' E bet. secs 28 and 29

Va 15° 42' E

- Through dense artemesia undergrowth.
29.00 Coules 4 ft wide, 3 ft deep bears S.W.
40.00 Set a sandstone 12x9x7 ins. 8 ins in the ground
for ¼ sec. cor., marked ¼ on W face; dug pits
18x18x12 ins N and S of stone, 5½ ft dist, and
raised a mound of earth 1½ ft high h, 3½
ft base alongside
59.20 Coules bears S.W.
80.00 Set a sandstone 18x10x6 ins. 12 ins in the ground
for cor. to 20, 21, 28 and 29 marked with 2
notches on N, and 4 notches on E edge; dug
pits 18x18x12 ins, in each sec 5½ ft dist,

Subdivision of T. 17 S. R. 14 E. A. L. M.

and raised a mound of earth 2 ft high
1½ ft. base alongside.

Land nearly level; clayey loam 1st and
2nd nati. No timber.

Dense artemesia undergrowth on 80.00 chs.

N 89° 32' W on a random line bet. secs 20 & 29
Va 15° 40' E

At a temporary ¼ sec. cor.

Intersect N and S. line 4 1/4 ls N of cor. to secs.
19, 20, 29 and 30

Hence turn S 89° 34' E on a true line bet secs
20 and 29

Va 15° 40' E

Through dense artemesia undergrowth

Coules 150 ft wide, 50 ft deep bears S.

Coules bears S. W.

Coules 8 ft wide, 5 ft deep bears S.

Set a limestone, 12 x 8 x 6 ins, 8 ins in the
ground for ¼ sec. cor., marked ¼ on N face;
dry pits 18 x 18 x 12 ins E and W of stone, 5 ½ ft
distr. and raised a mound of earth 1½ ft
high, 3 ½ ft base alongside.

Coules 30 ft wide, 6 ft deep bears S. W.

Foot of low hill

Top of hill bears N and S; descend over rolling
ground to

The cor. to secs. 20, 21, 28 and 29.

Land hilly and nearly level; soil, clayey
loam 1st and 2nd nati. No timber

Dense artemesia undergrowth on 79.53 chs.

N 0° 09' E lat. secs 20 and 21

Va 15° 40' E

Through dense artemesia undergrowth,
over broken ground to

Center smooth, nearly level, ground.

Set a sandstone 14 x 8 x 6 ins, 9 ins. in the
ground. for ¼ sec cor., marked ¼ on W face;
dry pits 18 x 18 x 12 ins N and S of stone, 5 ½
ft distr. and raised a mound of earth

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Subdivisions of 917A R. & E. D. L. W.

48.30	1½ ft high, 3½ ft base alongside. Couleis 3 ft wide, 6 ft deep bears N.W.
80.00	Set a sandstone 14x10x6 ins 10 ins in the ground for cor. to secs. 16, 17, 20 and 21, marked with 3 notches on N. and 4 notches on E edge; dug pits 18x18x12 ins in each sec. 5½ ft dist, and raised a mound of earth 2 ft high h, 4½ ft base alongside. Land nearly level; soil clayey loam 1st and 2nd rate. No timber. Dense artemesia undergrowth on 8000 chs.
	N 89° 3' W on a random line bet. secs. 17 and 20 Va 15° 40' E
40.00	Set a temporary ¼ sec cor
79.65	Intersect cor to secs. 17, 18, 19 and 20 Thence I run, N 89° 3' E on a line line bet secs. 17 and 20. Va 15° 40' E
7.65	Through dense artemesia undergrowth
19.65	Edge of hill 100 ft high bears N.E.; descend
38.50	Foot of hill Couleis bears S.
39.83	Set a sandstone 12x10x5 ins, 8 ins in the ground, for ¼ sec. cor., marked ¼ on N face; dug pits 18x18x12 ins E and W of stones, 5½ ft dist, and raised a mound of earth 1½ ft high h, 3½ ft base alongside.
48.25	Couleis 6 ft wide 3 ft deep bears N.W.
56.50	Couleis 4 ft wide 6 ft deep bears N.W.
67.35	Ascend.
68.35	Top of low hill bears S.
73.70	Foot of hill
79.65	The cor. to secs 16, 17, 20 and 21. Land mountainous and level, soil sandy loam and clayey loam 1st and 3rd rate. Dense artemesia underbrush on 79.65 chs. Mountainous on 19.65 chs. No timber

Subdivision of 917 S.R. 14 E.P.L. M.

	N 0° 0' E bet. secs. 16 and 17 Va 15° 38' E
38.60	Through dense artemesia undergrowth Couleis 8 ft wide, 3 ft deep bears P.W.
38.00	Couleis 30 ft wide, 10 ft deep bears P.W.
40.00	Set a sandstone 14x10x6 ins 10 ins in the ground for 1/4 sec. cor., marked 1/4 on W face, dug pits 18x18x12 ins, Wash D. of stone 5 1/2 ft dist. and raises a mound of earth 1 1/2 ft high, 3 1/2 ft base alongside.
49.80	Couleis 4 ft wide, 2 ft deep bears P.W.
80.00	Set a sandstone 12x12x4 ins. 8 ins in the ground, for cor. to secs. 8, 9, 16 and 17, marked with 4 notches on N, and 4 notches on E edge, dug pits 18x18x12 ins. in each sec. 5 1/2 ft dist. and raises a mound of earth 2 ft high, 4 1/2 ft base alongside. Land nearly level; soil sandy loam and clayey, 1 st and 3 rd rate. No timber. Dense artemesia undergrowth on 80.00 cts.

	N 89° 34' W on a random line bet. secs. 8 and 17 Va 15° 35' E
40.00	Set a temporary 1/4 sec. cor.
79.69	Intersect Wash D. line 17 lks D. of cor to secs. 7, 8, 17 and 18. Hence draw, 089° 37' E on a true line, bet. secs 8 and 17.
	Va 15° 35' E
	Through dense artemesia undergrowth
6.00	Couleis bears P.
10.80	Couleis 30 ft wide 12 ft deep bears P.
22.20	Foot of hill
26.40	Top of ridge, bears Wash D.
29.20	Wash in head of gulch 60 ft deep bears P.
32.70	Ridge bears Wash D.
36.70	Foot of hill.
39.85	Set a sandstone 12x12x6 ins. 8 ins in the ground for 1/4 sec. cor., marked 1/4 on W face, raises a mound of stone 1 1/2 ft high 2 ft base alongside. Pits imp.

Subdivision of T. 17 R. 14 E. D. L. M.

47.60	Couleis 30 ft wide, 6 ft deep bears S E
52.50	Couleis 30 ft wide 3 ft deep bears S.
56.70	Couleis 10 ft wide 4 ft deep bears S
76.10	Couleis 10 ft wide 3 ft deep bears S.
79.69	The cor. to secs. 8, 9, 16 and 17. Sand broken; soil, clayey 3 rd rate. Not timber Dense artemesia undergrowth on 79.69 chs.

N 0°09' E. bet. secs. 8 and 9

V 0 15°40' E.

Through dense artemesia undergrowth

21.00 Bend in coulei 20 ft wide 6 ft deep bears four
W.W. to S.W.

31.30 Ridge 60 ft high bears E and W; thence
descend over broken ground.

40.00 Set a sandstone 14x12x5 ins. 10 ins. in the
ground for 1/4 sec. cor., marked 1/4 on W face,
raised a mound of stone 1 1/2 ft high 2
ft base along sides. Pits imp.

Foot of hill.

43.80 Coulei 20 ft wide, 6 ft deep, bears S.W.

56.80 Coulei bears W.

58.60 Coulei 10 ft wide 8 ft deep bears S.W., ascend.

74.00 Top of hill bears W.

80.00 Set a sandstone 15x12x4 ins. 10 ins. in the
ground for cor to secs. 4, 5, 8 and 9, marked
with 5 notches on N and 4 notches on E edge,
dug pits 18x18x12 ins. in each sec. 5 1/2 ft
dist., and raised a mound of earth 2 ft
high 4 1/2 ft base along sides.

Sand broken; soil, clayey loam 2nd rate.

Dense artemesia undergrowth on
80.00 chs. Not timber.

N 89°27' W on a random line bet. secs 5 and 8

V 0 15°40' E

40.00 At a temporary 1/4 sec. cor.

79.80 Intersect cor. to secs. 5, 6, 7 and 8.

Thence down, N 89°27' E on a true line bet.
secs 5 and 8.

V 0 15°40' E

	Through dense artemesia undergrowth
3.40	Coule 20 ft wide, 4 ft deep bears S.E.
17.80	Coule 100 ft wide 20 ft deep bears S.
21.00	Ascend; leave dense undergrowth
39.90	Set a sandstone 14x9x6 ins, 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; Raised a mound of stone 12 ft high 2 ft base alongside. Pits in.
40.60	Top of hill
43.40	Top of hill, descend 150 ft to
49.40	Coule 20 ft wide, 10 ft deep bears S.E.
61.10	Wash in gulch bears S.W.; ascend steep hill
65.30	Top of hill bears N.E., descend 100 ft to
75.30	Coule 10 ft wide 3 ft deep. bears. S.W!
78.20	Ridge bears N.
79.80	On cor. to secs. 4, 5, 8 and 9. Sand mountainous soil clayey loam and shale. 3rd and 4th rate. No timber Dense artemesia undergrowth on 21.00 chs. Mountainous on 58.80 chs.

June 8th 1894

I commence at the N. bdy of the township at the cor. to secs. 33 and 34 previously re-established by myself.

Hence I am $10^{\circ} 10' E$ bet secs 33 and 34

To $15^{\circ} 42' E$

Along W slope of gulch.

21.00	Top of mesa 30 ft high bears N.E. Enter dense artemesia undergrowth.
40.00	Set a sandstone 18x8x4 ins, 12 ins in the ground for cor. to secs. 27, 28, 33 and 34, marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins N and S. top, 5 $\frac{1}{2}$ ft dist and raised a mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base alongside.
62.00	Wash in gulch 40 ft deep bears W
75.00	Wash in gulch bears S.W. from N.
80.00	Set a sandstone 12x12x6 ins, 8 ins in the ground for cor. to secs. 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches on E edge; dug pits 18x18x12 ins in each sec. 5 $\frac{1}{2}$ ft dist, and raised a mound of earth 2 ft high, 4 $\frac{1}{2}$ ft

Subdivision of T17 R14 E. D.S.P.M.

base alongside.

Land Table; soil sandy loam, 1st and 2nd rot.
Sparse artemesia undergrowth on 59.00 ects.
No timber.

Obs on sun for meridians 7:30 AM June 9
at the cut to secs. 27, 28, 33 and 34.

I direct telescope on foresight on line
bet secs 27 and 28.

Alt.

Hor angle right.

28° 05'

82° 02'

28° 18'

82° 12'

56° 23'

164° 14'

Mean alt. = 28° 11' 30"; Mean hor. ang. 82° 07'

Lat = L = 39° 18' N

28° 11' 30" - ref 1' 45" = 28° 09' 45" = h sun's alt.

Dec. June 9th 22° 57' 52.5"

12.27 x 2.5 add 30.7

Dec June 9 @ 7:30 AM 22° 58' 23"

P.D. = 90° - 22° 58' 23" 67° 01' 37"

1 log cos of 39° 18' " = 9.888651 "

h " " " 28° 09' 45" = 9.945278 (a)

20 134° 29' 22" 19.833929 "

1/2(a) = 9.916964 = (b)

1 log cos of 67° 14' 41" = 9.587482 "

S-P.D. " " 13° 04" = 9.999997 "

Sum 19.587479 "

1/2 sum = 9.793739 "

sub (b) 9.916964

1/2 log cos of 41° 09' 08" = 9.876775 "

Z = 82° 18' 16" 82° 18' 16"

Hor angle right = 82° 07' "

Difference, true bearing of line N 11 1/4 E

I turn 0° 11 1/4 W and find the magnetic
bearing of the true meridians to be N 15°
43' W and the mean declination is
therefore 15° 39' 8"

I take a new foresight, determined from
my solar obs, for any meridional sec
line, bearing N 10' E.

Subdivision of T 17 N R 14 E. D. L. M.

	N 89°35' W on a random line bet secs. 28 and 33
	Va 15°43' E
40.00	Set a temporary 1/4 sec. cor.
79.98	Intersect N and O line 2 chs. N of cor to secs. 28, 29, 32 and 33. Thence I run D 89°36' E on a true line bet secs. 28 and 33
	Va 15°43' E
6.00	Through dense artemesia undergrowth
15.50	Foot of mesa, ascend
39.99	Top of mesa 40 ft high bears N and S. Set a sandstone 16x8x6 ins 10 ins in the ground for 1/4 sec. cor., marked 1/4 on N face, dug pits 18x18x12 ins E and W of stone 5 1/2 ft dist, and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside.
47.00	Wash in gulch 200 ft wide 40 ft deep bears S.W!
56.00	Wash in gulch 40 ft deep bears S.W.
79.50	Wash in gulch bears S.
- 79.98	The cor. to secs. 27, 28, 33 and 34. Lands, table, soil sandy loam 2 nd rate. Dense artemesia undergrowth on 79.98 chs. No timber.
	N 0°10' E. bet. secs. 27 and 28
	Va 15°40' E
4.00	Through dense artemesia undergrowth
40.00	Wash in gulch bears D from N.E.
	Set a sandstone 12x10x4 ins 8 ins in the ground for 1/4 sec cor., marked 1/4 on W face; dug pits 18x18x12 ins N and S. of stone, 5 1/2 ft dist, and raised a mound of earth 1 1/2 ft high, 3 1/2 ft base alongside
59.80	Wash in gulch 20 ft deep bears S.W!
80.00	Set a sandstone 12x12x6 ins, 8 ins in the ground for cor. to secs. 21, 22, 27 and 28, marked with 2 notches on S, and 3 notches on E edge; raised a mound of stone 1 1/2 ft high, 2 ft base alongside. Pits nips. Lands, mesa; soil sandy 3 rd rate. No timber

Subdivisions of D. 17 S. R. 14 E. S. L. N.W.

Dense artemesia undergrowth on 80.000 cha.

N 89° 36' W on a random line bet. secs. 21 and 28
Va 15° 40' E

40.00 Set a temporary 1/4 sec. cor.

79.97 Intersect N and S line. 2 1/2 rods east to secs
20, 21, 28 and 29

Thence D 89° 35' E on a true line bet. secs
21 and 28

Va 15° 20' E

Through dense artemesia undergrowth

8.70 Coule's bears D.

27.30 Coule's bears D; as cend.

31.30 Top of mesa, 60 ft high, bears N and S.

39.97 Set a sandstone 16x8x6 ins. 10 ins in the ground
for 1/4 sec. cor., mortised 1/4 on N face; dug pits
18x18x12 ins. E and W of stone, 5 1/2 ft dist.
and raised a mound of earth 1 1/2 ft
high, 3 1/2 ft base, alongside.

49.50 Wash in gulch 60 ft wide, 20 ft deep bears D.

58.00 Coule's bears D.

65.60 Coule's bears D 15° W

79.97 D. the cor. to secs. 21, 22, 27 and 28.

Land bottom and table, soil sandy loam and
gravelly 2nd and 3rd rate. No timber

Dense artemesia undergrowth on 79.97 cha

N 0° 10' E bet. secs 21 and 22

Va 15° 40' E

Through dense artemesia undergrowth

33.10 Coule's bears S. W.

40.00 Set a sandstone 18x10x9 ins. 12 ins in the
ground for 1/4 sec. cor., mortised 1/4 on W face,
raised a mound of stones 1 1/2 ft high,
2 1/2 ft base alongside. Pits imp.

40.80 Coule's 30 ft wide 5 ft deep bears S. W.

80.00 Set a sandstone 12x9x6 ins. 8 ins in the
ground for cor. to secs. 15, 16, 21 and 22,
mortised with 3 notches on N, and 3 notches
on E edge, dug pits 18x18x12 ins. in each
sec. 5 1/2 ft dist. and raised a mound of

Subdivision of T 17 S R 14 E. D. S. M.

earth 2 ft high, $4\frac{1}{2}$ ft base alongside.
Land, mesa; soil, sandy loam 2nd rate.
Dense artemesia undergrowth on 80.00 chs.
No timber.

N 89° 35' W on a random line bet. secs. 16 and 21
Va 15° 40' E.

- 40.00 Set a temporary $\frac{1}{4}$ sec. cor.
79.87 Intersect on to secs. 16, 17, 20 and 21
Thence I run, N 89° 35' E on a true line bet.
secs 16 and 21
Va 15° 40' E
Over nearly level ground, through dense
artemesia undergrowth,
15.00 Ascend gradually over broken ground.
36.20 Wash in gulch 40 ft deep bears D.
39.94 Set a sandstone 12 x 10 x 8 ins., 8 ins. in the
ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W
face; raised a mound of stones $1\frac{1}{2}$ ft high
2 ft base alongside. Pits imp.
41.90 Coule bears S.E. & chs, then S.W.
46.90 Coule bears D.
51.50 Wash in gulch 20 ft deep bears S.W.
55.90 Top of mesa bears W and D.
64.90 Head of gulch bears S.W.
68.85 Coule 10 ft wide, 4 ft deep, bears D.
79.87 The cor. to secs. 15, 16, 21 and 22.
Land, hilly and mesa; soil clayey loam
along W part and sandy loam on mesa
2nd and 3rd rate. No timber
Dense artemesia undergrowth on 79.87 chs.

N 0° 10' E bet. secs. 15 and 16

Va 15° 40' E

- Through dense artemesia undergrowth
Wash in gulch 40 ft deep bears W.
Set a sandstone 14 x 8 x 6 ins. 10 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W
face, raised a mound of stones $1\frac{1}{2}$ ft high
2 ft base alongside. Pits imp. 3 secund.
47.60 Wash in gulch bears S.W.
Same wash bears from E to S.E.

Subdivision of T. 17 S R. 14 E. A. L. M.

60.00	Ridge bears W and S.W.
69.30	Wash in gulch 100 ft wide 50 ft deep bears W.
75.50	Ridge bears E and W, descent to.
80.00	Set a sandstone 16x9x6 ins. 10 ins in the ground for cor. to secs. 9, 10, 15 and 16 marked with 4 notches on N. and 3 notches on E edge, raised a mound of stone 1½ ft high, 2 ft base, alongside. Pits imp. Land mesa and broken; soil, sandy loam and clayey, 2 nd and 3 rd rate. No timber Dense artemesia undergrowth on 80.00 chs.

N 89° 35' W on a random line bet. secs 9 and 16
Va 15° 40' E

40.00	Set a temporary ¼ sec. cor.
79.94	Intersect N and S line 12 ells N of cor. to secs. 8, 9, 16 and 17. Thence run, D 89° 40' E on a true line, bet. secs 9 and 16
	Va 15° 40' E

Through dense artemesia undergrowth

0.20	Coulees bears S.W.
10.50	Ridge bears N and S.
20.90	Coulees 40 ft wide, 10 ft deep bears S.
24.50	Coulees 50 ft wide 10 ft deep. bears N 10° W
39.97	Set a sandstone 16x10x5 ins 10 ins in the ground for ¼ sec. cor., marked ¼ on N face; dug pits 18x18x12 ins E and W of stone 5½ ft dist. and raised a mound of earth 1½ ft high, 3½ ft base alongside. Coulees 25 ft wide 4 ft deep bears N 7° W
70.00	The cor. to secs. 9, 10, 15 and 16.
79.94	Land level and broken; soil, clayey loam 3 rd rate. No timber Dense artemesia undergrowth on 79.94 chs.

June 9th 1894

I begin on the S body of the T.P. at the cut to
secs 34 and 35, previously re-established by
myself.

Thence I run, N 0° 11' E bet. secs. 34 and 35.

Subdivision of 9. 17 A. R. 10 E. P.L. 100.

To $15^{\circ} 40' E$

- 17.60 Cutis bears S.W.
 26.00 Cutis bears S.W., ascend.
 31.20 Top of mesa: enter dense artemesia
 undergrowth.
 40.00 Set a sandstone 22x16x2 ins. 1.5 ins in the
 ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W
 face; raised a mound of earth $1\frac{1}{2}$ ft high,
 2 ft base along sides. Pit imp.
 54.00 Wash in gulch 30 ft deep bears S.W.
 61.30 Same wash in gulch bears S.E.
 67.10 Same gulch bears from N. E.
 79.40 Cutis bears W.
 80.00 Set a sandstone 18x9x6 ins., 12 ins in the
 ground, for cor. to secs. 26, 27, 34 and 35,
 marked with 1 notch on N, and 2 notches on
 E edge; dug pits 18x18x12 ins. in each sec. $5\frac{1}{2}$
 ft dist, and raised a mound of earth 2 ft
 high, $4\frac{1}{2}$ ft base along sides.
 Land broken; soil, clayey 3^{rd} rate. Not timbered
 Dense artemesia undergrowth on 40.80 cha

N $84^{\circ} 35'$ W on a random line bet secs. 27 and 34

To $15^{\circ} 40' E$

- 110.00 Set a temporary $\frac{1}{4}$ sec. cor.
 180.00 Intersect N and S line 150 ft N of cor to secs.
 27, 28, 33 and 34
 Thence I run, D $89^{\circ} 41' E$ on a true line bet secs.
 27 and 34

To $15^{\circ} 40' E$.

- 1.00 9 through dense artemesia underbrush
 Top of mesa
 13.80 Wash in gulch 30 ft deep bears S.W.
 23.00 Wash in gulch 20 ft deep bears S.W.
 40.00 Set a sandstone 12x10x6 ins., 8 ins in the
 ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N
 face; dug pits 18x18x12 ins. E and W of
 stone, $5\frac{1}{2}$ ft dist, and raised a mound
 of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base along
 sides.
 4.00 Cutis 10 ft wide, 4 ft deep bears from S.E. to N.

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Subdivision of D. 17 S. R. 14 E. S. L. M.

53.00	Coulees 10 ft wide 4 ft deep bears S. W.
65.00	Top of ridge bears S. W.
69.00	Wash in gulch, 30 ft deep. bears from E. to S.
74.00	Same wash in gulch bears from N. E. to W.
80.00	The cor to secs. 26, 27, 34 and 35. Land, mesa and broken, soil sandy 2 nd rate. No timber. Dense artemesia undergrowth on 8000 chs.

N 0° 11' E bet. secs. 26 and 27

to 15° 40' E

Through dense artemesia undergrowth

4.30 Coulees bears S. W.

9.80 Coulees 4 ft wide, 2 ft deep bears S. W.

16.00 Coulees 6 ft wide 4 ft deep bears S. W.

28.00 Coulees 6 ft wide 4 ft deep bears S. W.

40.00 Set a sandstone 12 x 10 x 6 ins. 8 ins in the ground, for 1/4 sec. cor., marked 1/4 on W. face. Raised a mound of stone 1 1/2 ft high 2 ft base alongside. Pits imp.

55.40 Coulees bears S. W.

68.60 Coulees bears S. W.

80.00 Set a sandstone 18 x 12 x 8 ins., 12 ins in the ground for cor to secs. 22, 23, 26 and 27, marked with 2 notches on N, and 2 notches on E edge, raised a mound of stone 1 1/2 ft high, 2 ft base alongside. Pits imp.

Land mesa, soil sandy loam, 2nd rate.

Dense artemesia undergrowth on 8000 chs.
No timber.

N 89° 41' W on a random line bet secs. 22 and 27

to 15° 40' E

40.00 Set a temporary 1/4 sec. cor.

79.91 Intersect cor. to secs. 21, 22, 27 and 28

Thence I run, D. 89° 41' E on a true line bet secs. 22 and 27

to 15° 40' E

Through dense artemesia undergrowth

7.00 Wash in gulch 20 ft deep bears S. S. W.

28.70 Wash in gulch 300 ft wide, 15 ft deep bears S. S. W.

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Subdivision of T. 17 P. R. 14 E. S. L. M.

33.70	Couleis bears S.W.
39.96	Set a sandstone 12x12x6 ins. 8 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; dug pits 18x18x12 ins, 6 and W of stone, 5 $\frac{1}{2}$ ft dist, and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base alongside.
54.00	Wash in gulch 25 ft deep bears S.W.
59.00	Wash in gulch 30 ft deep bears S.W.
77.00	Couleis bears S.W.
79.91	The cor. to secs. 22, 23, 26 and 27. Land mesa; soil sandy loam 2 nd rate. Dense artemesia undergrowth on 79.91 chs. No timber.
	$N 0^{\circ} 11' E$ bet. secs. 22 and 23 $\frac{1}{4} a 15^{\circ} 40' E$
	Through dense artemesia undergrowth.
11.30	Wash in gulch 15 ft deep bears W.
30.80	Wash in gulch 25 ft deep bears S.W.
40.00	It is impracticable to set stone in the ground; I therefore set a sandstone 14x12x5 ins. in a mound of stone 1 $\frac{1}{2}$ ft high 3 ft base, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face. Pits imp.
51.40	Couleis bears W.
61.50	Couleis 6 ft wide, 2 ft deep bears S.W.
77.80	Couleis 20 ft wide 8 ft deep bears S.W.
80.00	Set a sandstone 24x8x8 ins. 18 ins in the ground. For cor. to secs. 14, 15, 22 and 23, marked with 3 notches on S, and 2 notches on E edge; raised a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp. Land mesa; soil sandy and gravelly, 3 rd rate. No timber. Dense artemesia undergrowth on 80.00 chs.
	$N 89^{\circ} 4' W$ on a random line bet. secs 15 and 22. $\frac{1}{4} a 15^{\circ} 40' E$
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
79.90	Intersect N and S line 8 ins S of cor. to

Subdivision of T. 17 S. R. 14 E. D. L. M.

secs. 15, 16, 21 and 22.

Thence I run, $089^{\circ}38' E$ on a true line
bet secs. 15 and 22.

Va $15^{\circ}40' E$

Through dense artemesia undergrowth

coulees bears S. W.

Ascend gradually

Set a sandstone $12 \times 10 \times 8$ ins, 8 ins in the
ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N
face; raised a mound of stone $1\frac{1}{2}$ ft
high 2 ft base alongside. Pits imp.

Coulees 10 ft wide 5 ft deep bears S. W., ascend.

Point of hill $\frac{1}{2}$ ft high bears $070^{\circ} E$.

Coulees bears S. W.

Coulees 20 ft wide, 10 ft deep bears S. W.

The cor to secs 14, 15, 23 and 23.

Land mesa and hilly; soil sandy loam
 2^{nd} rate and gravelly, 3^{rd} rate. No timber.
Dense artemesia undergrowth on
79.90 chs.

$N 0^{\circ}11' E$ bet secs. 14 and 15

Va $15^{\circ}40' E$

Through artemesia undergrowth

Coulees 20 ft wide, 10 ft deep. Ascend. Leave under-
growth.

Top of hill 300 ft above cor. bears S. W.

Descend steep slope.

Set a sandstone $16 \times 9 \times 6$ ins 10 ins in the
ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W
face, dug pits $18 \times 18 \times 12$ ins. 1 and 0 of
stone, $5\frac{1}{2}$ ft dist, and raised a mound
of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base along-
side.

42.30 Wash in gulch bears W

43.30 Wash in gulch bears S. W.

53.20 Wash in gulch bears S. W.

73.20 Wash in gulch bears W

It is impracticable to set a stone in the
ground, I therefore set a sandstone 20×12
 $\times 4$ ins, in a mound of stone $1\frac{1}{2}$ ft high

Subdivision of 917 S. R. 14 to Ad. M.

	3 ft base, for sec. to secs. 10, 11, 14 and 15, marked with 11 notches on S. and 2 notches on E edge. Pit imp. Land, mountainous, soil, stony 4 th rate. No timber Mountainous on 80.00 chs.
	N 89° 38' W on a random line bet. secs. 10 and 15. Va. 15° 40' E
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
79.97	Intersect N and S lines 16 rods N. of cor. to secs. 9, 10, 15 and 16. Thence from S 89° 45' E on a true line bet secs 10 and 15. Va 15° 40' E
14.00	Through dense artemesia undergrowth foot of hill; leave dense undergrowth
26.00	Top of high hill bears N. E. and W; descends gradually to
38.60	Coule 10 ft wide 3 ft deep bears S. W.
39.98	Set a sandstone 16 x 9 x 8 ins, 10 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; raised a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base along side. Pit imp.
50.80	Wash in gulch 20 ft deep bears S. W.
72.50	Wash in gulch bears S. W.
79.97	The cor. to secs. 10, 11, 14 and 15. Land, mountainous, soil sandy and stony 3 rd and 4 th rate. No timber Mountainous on 79.97 chs.
June 11 th 1894	
	From the cor to secs. 9, 10, 15 and 16. Run. N 0° 10' E bet. secs. 9 and 10 Va 15° 40' E
0.90	Through h dense artemesia undergrowth coule 30 ft wide, 10 ft deep bears W.
17.90	Coule 10 ft wide 4 ft deep bears S. W.
33.70	Ridge bears W.
40.00	Set a sandstone 24 x 9 x 6 ins, 18 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W

Subdivision of T. 17 S. R. 14 E. S. L. M.

	face; dug pits 18x18x12 ins. N and S of stone 5½ ft dist. and raised a mound of earth 1½ ft high, 3½ ft. base along- side.
44.00	Coulee bears N.W.
48.30	Coulee 5 ft wide, 3 ft deep bears W.
51.70	Ridge 60 ft high bears N.E.
59.00	Coulee 30 ft wide 5 ft deep bears W.
74.30	Wash in gulch bears S.W.
80.00	Set a sandstone 20x18x5 ins., 15 ins in the ground for cor. to secs. 3, 4, 9 and 10, marked with 5 notches on N, and 3 notches on E edge; dug pits 18x18x12 ins., in each sec., 5½ ft dist., and raised a mound of earth 2 ft high, 4½ ft base alongside. Sand broken, soil, clayey 3 rd part. No timber. Dense artemesia undergrowth on 80.00 chs.
	1789°40' W on a random line bet secs. 4 and 9 Va 15°40' E
40.00	Set a temporary ¼ sec. cor.
79.82	Intersect N and S line 160 ft N of cor. to secs. 4, 5, 8 and 9 Thence D 89°30' E on a line line bet secs. 4 and 9 Va 15°40' E
	Descend through dense artemesia under- growth
4.10	Coulee bears S.E.
8.20	Coulee bears S.E.
16.80	Coulee bears S.
26.20	Coulee 15 ft wide 5 ft deep bears S., ascend.
38.80	Top of ridge bears S.W.
39.91	Set a sandstone 15x10x5 ins., 10 ins in the ground, in ¼ sec. cor., marked ¼ on N face; dug pits 18x18x12 ins., S and W of stone, 5½ ft dist., and raised a mound of earth 1½ ft high, 3½ ft base alongside
42.40	Coulee bears S.
51.80	Point of steep bluff bears N.E.

Subdivision of 9.17 A.R. 14 E. P.S. No.

52.80	Enter coulees 20 ft wide, 10 ft deep; bears from E to S.
57.30	Leave same coulee; bears from N.
65.80	Coulee bears S.W.
- 79.82	The cor. to secs. 3, 4, 9 and 10. Lands, mountainous and broken; soil, stony and shale 3 rd rate and 4 th rate. Dense artemesia undergrowth on 79.82 chs. Mountainous on 20.60 chs. Not timbered.
	From the cor. to secs. 4, 5, 8 and 9. I am, N 0° 0' E on a random line bet secs 4 and 5 Va 15° 40' E
40.00	Set a temp mark 1/4 sec. cor.
83.04	Intersect N bdy of 7th & 21st W of cor. to secs. 32, 33, 4 and 5, which is a cor. herein- before described. Thence I am, S 0° 0' W on a line line bet secs. 4 and 5 Va 15° 40' E
	Descend through artemesia undergrowth.
9.70	Top of hill bears S 10° W
13.40	Top of hill descend
17.70	Gulch bears S 10° W
21.90	Point of ridge 50 ft high bears N 10° E
25.50	Coulee 30 ft wide, 10 ft deep bears S.W.
29.30	Point of ridge
32.60	Gulch bears S.W.
43.04	It is impracticable to set a stone in the ground; I therefore set a sandstone 14x8x6 ins, in a mound of stone, 1 1/2 ft high, 2 ft base, for 1/4 sec. cor., marked 1/4 on W face. Bits imp.
45.10	Top of mesa bears S.W.
64.10	Descent from top of mesa bears N.E.
67.10	Gulch 40 ft wide 30 ft deep bears S.E.
- 83.04	The cor. to secs. 4, 5, 8 and 9. Lands, mountainous; soil stony and clayey 3 rd and 4 th rate. Not timbered. Mountainous on 83.04 chs.

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Subdivision of T. 17 S. R. 14 E. S. S. D.

Beginning at the cor to secs. 5, 6, 7 and 8, I run, N $0^{\circ}09' E$ on a random line bet. secs. 5 and 6

N $0^{\circ}40' E$

- 40.00 Set a temporary $\frac{1}{4}$ sec. cor.
 82.29 Intersect N bdy of township, 25 ft N
 E of cor to secs 5, 6, 31 and 32 which is
 a cor. herein before described.
 Thence I run, N $0^{\circ}02' E$ on a true line bet.
 secs 5 and 6

N $0^{\circ}40' E$

- Through dense artemesia undergrowth.
 Coule 15 ft wide soft deep bears from N to SW
 Wash in gulch 20 ft wide, 20 ft deep bears
 from N.W. to N $10^{\circ} E$
 Wash in gulch bears from E to S
 Set a sandstone 16x10x6 ins, 10 ins in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on
 W face; raised a mound of stone 1 $\frac{1}{2}$
 ft high, 2 ft base alongside Pitts imp.
 Leave gulch 100 ft wide, 20 ft deep
 bears S.W.
 - 82.29 The cor to secs. 5, 6, 7 and 8.
 Land, rolling; soil gravelly, 3rd rate pasture.
 Dense artemesia undergrowth on 82.29 chd.

From the cor to secs. 10, 11, 14 and 15 I run,
 N $0^{\circ}11' E$ bet secs. 10 and 11

N $0^{\circ}40' E$

- 1.80 Point of ridge bears N.E.
 7.10 Wash in gulch 80 ft deep bears S.W.
 18.30 Coule 12 ft wide, 5 ft deep bears W
 23.30 Wash in gulch 75 ft deep bears W
 31.30 Wash in gulch bears W.
 37.80 Wash in gulch 40 ft deep bears S.W.
 40.00 It is impracticable to set a stone in the
 ground, I therefore set a sandstone 18x9x8
 ins, in a mound of stone 1 $\frac{1}{2}$ ft high 2 ft
 base, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face.
 Pitts imp.
 42.80 Wash in gulch 80 ft deep bears S.W.

Subdivision of T. 17 S. R. 14 E. S. L. M.

62.30	Wash in gulch 100 ft wide 80 ft deep bears W.
68.30	Wash in gulch 60 ft deep bears N.W.
80.00	<p>It is impracticable to set a stone in the ground. I therefore set a sandstone 16x12x10 ins in a mound of stone 1½ ft high, 3 ft base, for cor to secs. 2, 3, 10 and 11, marked with 5 notches on N, and 2 notches on E edge. Pits imp.</p> <p>Sand, mountainous; soil, stony, & bratty. A few cedar trees and some artemesia undergrowth on line.</p> <p>Mountainous on 80.00 chs.</p>
	<p>N 0° 11' E on a random line bet secs 2 and 3 Va 15° 40' E</p>
40.00	Set a temporary ¼ sec. cor.
84.16	<p>Intersect N body of township at cor. to secs 2, 3, 34 and 35. Thence I run S 0° 11' W on a true line, bet secs. 2 and 3</p> <p>Va. 15° 40' E</p>
2.60	Coule bears S.W.
7.10	Wash in gulch bears W.
20.70	Wash in gulch 50 ft deep bears W.
25.10	Gulch 40 ft deep bears W.
35.90	Gulch 60 ft deep bears W.
44.16	<p>It is impracticable to set a stone in the ground, I therefore set a sandstone 15x10x6 ins in a mound of stone 1½ ft high, 2 ft. base, for ¼ sec. cor., marked ¼ on W face. Pits imp.</p> <p>Gulch bears S.W.</p>
47.70	
69.10	Wash in gulch 40 ft deep bears W.
73.30	Wash in gulch 40 ft deep bears W.
83.70	Wash in gulch 60 ft deep bears N.W.
84.16	The cor to secs. 2, 3, 10 and 11. <p>Sand, mountainous; soil, stony & bratty. A few cedars along line. Mountainous on 84.16 chs.</p>

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Subdivision of T. 17 S. R. 14 E. A. S. M.

$N 89^{\circ} 45' W$ on a random line bet. secs. 9 and 10
 $\Delta a 15^{\circ} 40' E$

- 40.00 Set a temporary $\frac{1}{4}$ sec. cor.
 79.80 Intersect N and S line 5 lfts N of cor. to secs.
 3, 4, 9 and 10.
 Thence I run, $S 89^{\circ} 47' E$ on a true line,
 bet. secs. 9 and 10.
 $\Delta a 15^{\circ} 40' E$
 Through artemesia undergrowth
 Coulees bears S. W.
 10.40 Coulees 4 ft wide, $3\frac{1}{2}$ ft deep bears S.W.
 Wash in gulch bears S.W.; ascend
 Set a sandstone $16 \times 10 \times 6$ ins., 10 ins in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on
 N face; deep pits $18 \times 18 \times 12$ ins. E and W of
 stone, $5\frac{1}{2}$ ft dist, and raised a mound
 of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base. always ribs.
 Ridge bears N.E.
 44.80 Gulch bears $N 80^{\circ} W$
 50.60 Ridge bears N. W.
 60.50 Wash in gulch bears S.W.
 66.30 Top of hill.
 79.50 Top of hill, descended.
 79.80 The cor. to secs. 2, 3, 10 and 11.
 Sand, mountainous, soil, stony, & cherty.
 No timber.
 Mountainous on 79.80 obs.

$N 0^{\circ} 10' E$ on a random line bet. secs. 13 and 14
 $\Delta a 15^{\circ} 40' E$

- 40.00 Set a temporary $\frac{1}{4}$ sec. cor.
 83.63 Intersect N bdy of $\frac{1}{4}$ of 12 lfts E of cor. to
 secs. 3, 4, 33 and 34.
 Thence I run, $S 0^{\circ} 05' W$ on a true line bet.
 secs. 3 and 4.
 $\Delta a 15^{\circ} 40' E$
 16.10 Edge of mesa bears N.E.; descended.
 33.10 Low ridge bears S.W.
 43.63 Set a sandstone $14 \times 7 \times 5$ ins., 9 ins in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W
 face; raised a mound of stone. $1\frac{1}{2}$ ft high

Subdivision of T. 17 S. R. 14 E. D. C. M.

	2 ft base alongside. Bits imp.
55.70	Coulees 20 ft wide 10 ft deep bears W.
57.60	Same coulees bears from N.W. to S.
65.50	Same coulees bears W.
67.80	Point of ridge 100 ft high bears E.
70.10	Bend in same coulees bears from N.W. to W
71.60	Gulch bears W.
79.60	Point of ridge, bears E.
83.63	The cut to secs. 3, 4, 9 and 10. Land, mountainous; soil stony and shale. 4th rate. No timber Mountainous on 83.63 chs.

June 13th, 1894

42 miles, 16 chs. 71 lots of the subdivision lines run over mountainous land or through timber or dense underbrush.

This fractional township lies at the foot of the Book Cliffs, which here bear due N and S. The E lines of secs.

3, 10, 15, 22, 27 and 34 are practically at the beginning of the steep ascent forming the W face of the cliffs.

There is no water in this township excepting that in Price river which flows through secs 30 and 31. Much of the land in the S.W. portion of the township can be irrigated from Price river and would produce good crops. The balance of the township affords good winter pasture for sheep or cattle.

James E. Randall, who made application for the survey of this township, lives in Sec 25 Tp 17 S. R 13 E.

Wm. Turner the other applicant lives in the N.E. 1/4 Sec. 36. Tp 17 S. R 13 E.

He lives in temporary quarters at present but is clearing land and making other improvements.

F. Lord, J. Ward, J. Nelson and J. Jobell all live in Sec 30 and have permanent

Subdivision of S. 17 D. R. 14 E. S. L. 200.

improvements.

John Anniller, Desert Entry No 3288, has about 60 acres of land under ditch and fence. He has a good log house and stable. His improvements are worth one thousand dollars.

Guy W. Brady, Desert Entry No 3683, has no improvements on his land, the A.E. No. 229, but he owns about three hundred dollars worth of stock in a ditch, which is partly constructed, and intended to furnish water to his land and other land in the vicinity. The mean declination of the plat is $15^{\circ}39' E.$.

This survey was executed during a period of almost uninterrupted wind and dust storms, which made it impossible to get the number of solar or stellar observations desired.

Frank E. Baxter
U. S. Deputy Surveyor.

Subdivision of T. 17 S. R. 14 E. S. D. C. 100.

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List of Names.

A list of the names of the individuals employed by , U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the

..... Meridian, in, showing
the respective capacities in which they acted :

Final Oath of Assistants:

We hereby certify that we assisted , U. S. Deputy Surveyor, in surveying all those parts or portions of the

..... Meridian, , as are represented in the foregoing field notes as having been surveyed by him and under his direction ; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for

Subscribed and sworn to before me this }
day of , 18 }



174
175
Bear

Final Oath of U. S. Deputy Surveyor.

I, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from U. S. Surveyor General for bearing date of the day of , 18, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for the surveying manual, and the laws of the United States, surveyed all those parts or portions of

..... Meridian, in the as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

U. S. Deputy Surveyor.

Subscribed and sworn to before me this }
day of , 18 }

U. S. SEAL

Approval.

Office of the U. S. Surveyor General,

Tall Lake City, Utah.

June 15, 1895.

The foregoing field notes of the survey of the Subdivisions of Township 17 South Range 14 East of the Tall Lake Base Meridian, Utah Territory.

executed

Frank E. Baxter

under his Contract No. 196, dated January 18th, 1894, having been critical examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Ward

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in Block 17, Section 14, Block 17, Section 15, Tall Lake Base Meridian, Utah Territory, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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H. J. B.

FIELD NOTES

OF THE SURVEY OF

The Exterior Lines of Township 20 South
 Range 25 East

Of the Salt Lake Meridian,

Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

Under his Contract No. 196, dated January 18th, 1894.

Survey commenced June 16th, 1894.

Survey completed June 30th, 1894.

973 6.62.11 ✓
 72.2 5.79.12 ✓
 5.3 3.47.44 ✓ ~ 5.34.67 ✓
 15.48.97 ✓

9.46.83
 34.67
 10.31.53

Names and Duties of Assistants.

Samuel Morris	Chairman
Wallace Watson	Chairman
George White	Chairman
Edward Redmond	Chairman
Lovell Wells	Flagman
Edward Redmond	Axeman

INDEX DIAGRAM.

Township 20 S., Range 25 E.

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Meanders Page

See page 5 (renumbering)

Preliminary Oaths of Assistants.

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the _____

_____, Chainman.

_____, Chainman.

_____, Chainman.

_____, Chainman

Subscribed and sworn to before me this _____ }
day of _____, 18 _____. }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the _____

Subscribed and sworn to before me this _____ , Axeman.
day of _____, 18 _____. }

_____, Axeman.

Retracing W bdy. of 920 S R 25 E S. S. M.

Survey commenced June 16th 1894
I examine the adjustments of my
transit and chain this morning
and put them in order.

I put up a sight at the $\frac{1}{4}$ sec cor
on the W bdy of 9^o bet. secs. 19 and 24
and set up my transit, in Lat $39^{\circ}02'N$
long. $109^{\circ}13'W$, over the standard cor to
9^o 20 S. R. 24 and 25 E, which is a
post in place as described in the notes
furnished me by the U. S. Surv. Genl.

Obs. on Amis center 9 a. m.

My reference line is established by
directing telescope to sights at
 $\frac{1}{4}$ sec cor. bet secs. 19 and 24 above described

Amis Alt.	Ra Angle Right.
-----------	-----------------

$47^{\circ}04'$	$96^{\circ}51'$
-----------------	-----------------

$47^{\circ}16'$	$97^{\circ}03'$
-----------------	-----------------

$47^{\circ}29'$	$97^{\circ}14'$
-----------------	-----------------

$47^{\circ}39'$	$97^{\circ}24'$
-----------------	-----------------

Sum	$189^{\circ}28'$	Sum	$388^{\circ}32'$
-----	------------------	-----	------------------

Mean	$47^{\circ}22'$	Mean.	$97^{\circ}08'$
------	-----------------	-------	-----------------

Ref. sub.	<u>$0052''$</u>	Amis dec. June 16 th $23^{\circ}22'14''$
-----------	----------------------------	---

$h = 47^{\circ}21'08'' + 5.11 \times 4$ add,	<u>$2044''$</u>
--	----------------------------

sec 9 a. m. June 16 = $23^{\circ}22'34''$	+
---	---

P.D. $90^{\circ} - 23^{\circ}22'34'' = 66^{\circ}37'26''$

$h \log \sec \text{ of } :$	$47^{\circ}21'08'' = .1691129$
-----------------------------	--------------------------------

$L \quad " \quad "$	<u>$39^{\circ}02'00'' = .1097021$</u>
---------------------	--

Z.D	$15^{\circ}00'34''$
-----	---------------------

S log cos of	$76^{\circ}36'17'' = 9.3680350$
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S-P.D. " "	<u>$9^{\circ}52'51'' = 9.9935248$</u>
------------	--

Sum	19.6403748
-----	--------------

$\frac{1}{2} Z \log \cos \text{ of } 48^{\circ}37.5' = 9.8201874$

$Z = 97^{\circ}15'$

My ref. line is $97^{\circ}08'$ left of obs position
of sun therefore $97^{\circ}15' - 97^{\circ}08' = 7^{\circ}07'E$
is the true bearing of my reference
line. I turn $7'$ left from my reference
line and drive a stake & chs N for
future use. The magnetic bearing
of the true meridian is $N15^{\circ}01'W$.

Retracing W. Bdy. of T 20 S. R 25 E D. L. M.

The mag. declination, there is $15^{\circ}01' E$
and the mean declination is $14^{\circ}56' E$

I now run N $0^{\circ}07' E$ on a random line
bet secs 31 and 36 to test the W bdy of
the township.

Via $15^{\circ}01' E$

- 40.00 Find stake marked 1/4 D, on ground 8
lms W of my line.
80.00 Find a thin stone, probably broken,
with 1 notch and 3 notches on opposite
edges, lying on the ground, 12 lms W.

N $0^{\circ}07' E$ on a random line bet secs 25 and
30

Via $15^{\circ}01' E$

- 40.00 20 lms N and 25 lms W find 1/4 car post
lying on the ground
80.00 25 lms N and 38 lms W find post for
car to secs 19, 24, 25, 30 lying on the ground.
Continuing N I find that many of
the corners have fallen down and
that the line is crooked.
At 6 miles 2.11 chs I fall 100 lms E
of the car. to Tps 19 and 20 D R's 24 and 25
E which is a post, in place, as described
in the notes of the U. S. Surv. Gen'l.
As this post is considerably decayed,
and in order, better, to perpetuate
this car., I destroy this post and re-
establish the car, in the same place,
as follows:

Set a sandstone 12x10x7 ins, 8 ins in the
ground for car. to Tps. 19 and 20 D, R's
24 and 25 E, marked with 6 notches
on the N. E. and W edges. dug pits
24x18x12 ins, lengthwise on each line
N. E. and W of stone, 6 ft dist, and
raised a mound of earth $2\frac{1}{2}$ ft high
5 ft base alongside.

The township on the W, not being sub.

Retracing W. Bdy. of T. 20 S. R. 25 E. N.D. 700.

divided, I destroy all corners on this line and reestablish the same on a straight line bet. the N.W. and S.W. cor. of the township.

P on a true line bet. secs. bet. secs 1 and 6
Va 15° 00' E

Through dense artemesia undergrowth
Coule 5 ft wide, 2 ft deep bears E.
Set a post 3x 3 ins. 3 ft long, with chained
stake 12 ins in the ground, for 1/4 sec. cor.,
marked 1/4 S on W face; dug pits 18x18x12
ins N and S of post, 5 1/2 ft dist., and raised
a mound of earth 1 1/2 ft high 3 1/2 ft
base alongside post.

70.00 Ridge 3 ft high bears E and W.

82.11 Set a sandstone 16x12x6 ins, 10 ins in the
ground, for cor. to secs. 1, 6, 7 and 12, marked
with 1 notch on N, and 5 notches on S edge;
dug pits 18x18x12 ins. in each sec., 5 1/2 ft
dist., and raised a mound of earth
2 ft high, 4 1/2 ft base alongside.

Sand, rolling; soil sandy loam 2 in. hate.
No timber. S.

Dense artemesia undergrowth on 82.11ch.

P on a true line bet. secs 7 and 12
Va 15° 00' E

Over rolling ground sloping W. through
dense artemesia undergrowth.

Coule bears W.

Coule bears W.

Set a sandstone 17x7x4 ins, 12 ins in the
ground for 1/4 sec. cor., marked 1/4 on W
face, raised a mound of stone 1 1/2 ft
high 2 ft base alongside. Pits imp.

Coule bears W.

Set a sandstone 18x9x6 ins, 12 ins. in the
ground, for the cor. to secs. 7, 12, 13 and 18
marked with 2 notches on N and 4
notches on S edge; raised a mound of

140

Pit-tracing W. Bdy of T. 20 S. R. 25 E. A. d. N.W.

stone $1\frac{1}{2}$ ft high, 2 ft base alongside
Pits imp.
Lands, rolling; soil, 3rd rate.
Some scattering cedars on line.
Dense artemesia undergrowth on 8000 chs.

On a true line bet secs 13 and 18
Va 14° 55' E

- 2.70 Bluff edge dense artemesia undergrowth
2.00 Ridge bears W. E. descends 100 ft. to
Coulie 8 ft wide 3 ft deep bears S. W.
23.50 Ridge bears W.
40.00 Set a sandstone 18x8x5 ins, 12 ins in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W
face, raised a mound of stone $1\frac{1}{2}$ ft
high, 2 ft base, alongside. Pits imp.
Leave undergrowth.
47.00 Top of hill descend
60.20 Edge of rock bears W. E.
69.50 Wash in canon bears S. W.; thence ascend
over W slope of hill to.
80.00 It is impracticable to set a stone in the
ground, I therefore set a sandstone 16x9x5
ins, in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base.
for cor. to secs 13, 18, 19 and 24, marked with
three notches on N and S edges. Pits imp.
Lands, mountainous; soil, stony, 4th rate
No timber. Artemesia undergrowth on
40 chs.
Mountainous on 8000 chs.

On a true line bet secs. 19 and 24
Va 14° 55' E

- descend
11.70 Wash in gulch, bears W; ascend.
36.80 Ridge 300 ft. high bears S. E.
38.50 Leave top of same ridge; descend steep
stony slope.
40.00 It is impracticable to set a stone in the
ground, I therefore set a sandstone, 20x12x6
ins, in a mound of stone, $1\frac{1}{2}$ ft high,

Retracing W. Bdy. of 9.20 S. R. 25 E. D.L. 700.

	2 ft base, upw $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face. Pits wimp.
61.30	Foot of mountain. Present track R. G. W. Ry bears N 30° E Enter dense artemesia undergrowth. Set a sandstone 20x12x6 ins. 15 ins in the ground, for cor. to secs. 19, 24, 25 and 30, marked with 4 notches on N, and 2 notches on S edge; dug pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft dist, and raised a mound of earth 2 ft high, $4\frac{1}{2}$ ft base alongside. Land, mountainous and rolling; soil, stony, 4 th rate, and sandy 3 rd rate. No timber.
80.00	Dense artemesia undergrowth on 18.70 chs. Mountainous 61.30 chs.
	Pass a tree line bet secs. 25 and 30 N $14^{\circ} 53'$ E
	Through dense artemesia undergrowth. Over nearly level ground.
73.50	Center of Cottonwood wash, 60 ft wide 10 ft deep bears E.
40.00	Set a sandstone 18x18x6 ins 12 ins in the ground, for cor. to secs. 24, 30, 31 and 36, marked with 5 notches on N, and 1 notch on S edge; dug pits 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft dist, and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside. Soil, level and hilly, soil, sandy and stony, 3 rd and 4 th rate.
43.50	1 chain E to edge of Cottonwood wash bears from N.E. to E.
56.50	Along E slope of hill.
66.50	Leave E slope of hill.
80.00	Set a sandstone 18x12x6 ins, 12 ins in the ground, for cor. to secs. 25, 30, 31 and 36, marked with 5 notches on N, and 1 notch on S edge; dug pits 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft dist, and raised a mound of earth 2 ft high, $4\frac{1}{2}$ ft base alongside. Soil, level and hilly, soil, sandy and stony, 3 rd and 4 th rate. No timber.
	Dense artemesia undergrowth on 8000 chs.

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Retracing W. Bdy of 9.20 S. R. 25 E. S.S. M.

	Draw a true line bet secs 31 and 36 Va 1405 3' E
10.00	Through dense artemesia undergrowth. Ridge 30 ft high bears E.
33.50	Cottonwood wash 30 ft wide 10 ft deep, bears S.W.
38.20	Top of bank 20 ft high bears N.E.
40.00	Set a sandstone, 20x10x5 ins, 15 ins in the ground for $\frac{1}{4}$ sec. cor., marked 14 on W face; dug pits 18x18x12 ins, N and S of stone, 5 $\frac{1}{2}$ ft dist, and raised a mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base alongside.
51.20	Wagon road to Salt Lake bears S.W.
63.10	Coulee 4 ft wide 2 ft deep bears W.
- 80.00	The cut to 9.20 S. R. 24 and 25 E. hereinbefore described. As this cut is greatly decayed, I destroy it and reestablish it in the same place, as follows:
	Set a sandstone 16x6x6 ins 10 ins in the ground for standard cut to 9.20 S. R. 24 and 25 E, marked S.C. on N, with 6 grooves on N, E and W faces; dug pits 30x24x12 ins crosswise on each line E and W 4 ft and N of stone 8 ft dist, and raised a mound of earth 2 $\frac{1}{2}$ ft high 5 ft base alongside. Land rolling; soil sandy, 3 rd rate. No timber. Dense artemesia undergrowth on 8000 obs

June 16th 1894

North Bdy of 920 S. R. 25 E. D. S. M.

Obs. on sun at N.W. cor. of T.P. Lat $39^{\circ}07'N$ at 8 A.M.
June 20th 1894.

Sun's Alt. $32^{\circ}15'$ Hour angle right. $84^{\circ}46'$

$32^{\circ}31'$ $84^{\circ}53'$

$32^{\circ}44'$ $85^{\circ}02'$

$32^{\circ}58'$ $85^{\circ}12'$

Sun $130^{\circ}28'$ Sun $339^{\circ}47'$

Mean $32^{\circ}37'$ Mean $84^{\circ}057'$

$32^{\circ}37' - \text{Ref } 1' 30'' = 32^{\circ}35'30''$

Dec Sun June 20th $23^{\circ}27'07'$; add $0.99'' \times 3 = 23^{\circ}27'10''$

The decl. at 8 A.M. June 20th

P.D. = $90^{\circ} - 23^{\circ}27'10''$ (say) $66^{\circ}32'50''$

$\frac{1}{2}$ log cos of $32^{\circ}35'30'' \approx 9.925586$

L. " " " $39^{\circ}07'00''$ 9.889785

2A. $138^{\circ}15'30''$ 19.815871 (a)

$\frac{1}{2}(a) = 9.907686$ (b)

I log cos of $69^{\circ}07'45''$ = 9.551753.

D-P.D. " " " $2^{\circ}34'45''$ = 9.999558

$19.551311; \frac{1}{2} = 9.775656$ (c)

out (b) 9.907686

$\frac{1}{2}2 \log \cos of 42^{\circ}27' = 9.867970$

$Z = 84^{\circ}054'$. Therefore $84^{\circ}057' - 84^{\circ}054' = 3'W$ is the bearing of my reference line. I turn off 3'E and find the mag. bearing of the true meridian is $N 15^{\circ}7'W$. The mean declination is $15^{\circ}2' E$.

My instructions require me to run the E bdy from the standard cor to Rcs 25 and 26 E. As shown in my notes of the survey of the 4th Standard Parallel South, it is impossible to set this cor. I therefore run the N bdy from the cor to Tps 19 and 20 & Rcs 24 and 25 E East on a true line.

From the cor to Tps 19 and 20 & Rcs 24 and 25 E which is a cor hereinbefore described.

I run E on a true line bet. secs 6 and 31.

On $15^{\circ}07'E$.

Through dense altemaria under growth.

Couler 10 ft wide, 3 ft deep bears S.

Couler bears S.E.

2.80

21.90

North. Bdy. of T 20 S. R 25 E. D. C. M.

39.42	Allowing for convergency of meridians I set a sandstone $18 \times 9 \times 5$ ins., 12 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face; dug pits $18 \times 18 \times 12$ ins. E and W of stone $5\frac{1}{2}$ ft dist. and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside.
60.20	Couler bears S.E.
79.42	Set a sandstone $17 \times 12 \times 4$ ins. 12 ins in the ground for cor to secs. 5, 6, 31 and 32, marked with 3 notches on E and 1 notch on W edge; dug pits $18 \times 18 \times 12$ ins. in each sec. $5\frac{1}{2}$ ft dist. and raised a mound of earth $2\frac{1}{2}$ ft high $4\frac{1}{2}$ ft base alongside. Land rolling; soil sandy, loam 2^{nd} rate. No timber. Dense artemesia undergrowth on 79.42 chs.
	E on a true line bet. secs. 5 and 32 Va $15^{\circ} 12' E.$ The magnetic declination is here increased by local attraction the cause of which I could not ascertain.
4.00	Through dense artemesia undergrowth Couler 8 ft wide, 5 ft deep bears N.E.
12.00	Couler bears N.E.
16.00	Couler 6 ft wide, 2 ft deep bears N.E.; ascend
24.50	Ridge 40 ft high, bears S.W. descended
31.00	Couler 10 ft wide 5 ft deep bears S.E.; ascended.
40.00	Set a sandstone $17 \times 8 \times 5$ ins. 12 ins in the ground for $\frac{1}{4}$ sec cor., marked $\frac{1}{4}$ on N face; dug pits $18 \times 18 \times 12$ ins. E and W of stone, $5\frac{1}{2}$ ft dist. and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside.
45.00	Ridge bears N., descended.
49.00	Foot of ridge.
65.60	Couler bears N.E.
70.80	Ridge 30 ft high bears S.W.
80.00	Set a sandstone $14 \times 12 \times 7$ ins. 10 ins in the ground, for cor to secs 4, 5, 32 and 33, marked with 4 notches on E, and 2 notches on W edge; dug pits $18 \times 18 \times 12$ ins. in each

101

North Bdy of 9.20 S.R. 25 E. D.L.W.

sec. 5 $\frac{1}{2}$ ft dist and raised a mound of earth 2 ft high 4 $\frac{1}{2}$ ft base alongside. Land rolling; soil sandy loam 3rd rate. No timber.

Dense artemesia undergrowth on 80.00 cha

E on a tree line bet. secs. 4 and 33

Va 15° 0' 3" E

Through dense artemesia undergrowth.

Couleis 15 ft wide, 4 ft deep bears N.C.

Couleis 8 ft wide, 8 ft deep bears N 60° E

Point of stony ridge 15 ft high bears S.

Couleis 80 ft wide 10 ft deep bears S.E.

Set a sandstone 20x10x3 ins. 15 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; dug pits 18x18x12 ins E and W of stone, 5 $\frac{1}{2}$ ft dist. and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base alongside.

Couleis 70 ft wide 10 ft deep bears N.

Point of ridge bears S.W.

Set a sandstone 17x18x9 ins, 12 ins in the ground for cor to secs. 3, 4, 33 and 34, marked with 3 notches on E and Wedgeo; dug pits 18x18x12 ins in each sec. 5 $\frac{1}{2}$ ft dist and raised a mound of earth 9 ft high, 4 $\frac{1}{2}$ ft base alongside.

Land, slightly level; soil sandy loam 2nd rate.

No timber

Dense artemesia undergrowth on 80.00 cha

E on a tree line bet. secs. 3 and 34

Va 15° 0' 3" E

Through dense artemesia undergrowth.

Couleis 60 ft wide, 20 ft deep bears S, ascends top of bluff 200 ft high bears N and S.

Enter heavy scrub cedar timber and ascend gradually over W slope of mountain. Set a sandstone 20x7x5 ins, 15 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face, dug pits 18x18x12 ins, E and W of

North Bdy. of T 20 S. R 25 E D.L.W.

	stone, $5\frac{1}{2}$ ft dist., and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside. No available bearing trees.
52.70	Leave cedar timber
79.00	Coule bears N.
80.00	Set a sandstone $16 \times 10 \times 5$ ins, 10 ins. in the ground, for cor. to secs. 2, 3, 34 and 35, marked with 2 notches on E and 4 notches on W edge; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp. Land mountainous and bottom; soil stony and sandy, 4 th and 2 nd rate.
	Heavy scrub cedar timber or dense artemesia undergrowth on 80.00 chs.
	Mountainous on 67.30 chs.
	E on a tree line bet. secs. 2 and 35. Va $15^{\circ}00' E$
40.00	Enter heavy scrub cedar timber. Ascend. It is impracticable to set a stone in the ground, I therefore set a sandstone $19 \times 10 \times 7$ ins., in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face. Pits imp.
45.80	Top of mountain leave timber; descended.
46.60	Ledge of rock 20 ft high, bears N and S. descent steep, stony slope.
75.00	Bottom 500 ft below top of hill.
	Ascend over broken ground through cedar.
8000	Set a sandstone $13 \times 9 \times 6$ ins, 8 ins in the ground for cor to secs. 1, 2, 35 and 36, marked with 1 notch on E and 5 notches on W edge. Raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp.
	Land mountainous, soil sandy and stony 4 th rate.
	Heavy scrub cedar timber on 45.80 chs.
	Mountainous on 80.00 chs.

2.

E on a tree line bet. secs. 1 and 36

Va $14^{\circ}57' E$

North Bdy of T20 S R 25 E. S.S. M

	Ascend through heavy scrub cedar timber.
10.00	Ridge bears N and S, descend.
17.00	Leave cedar timber.
28.00	Ridge 40 ft high bears S.W.
32.00	Enter dense artemesia undergrowth.
38.20	Salt Lake wagon road bears S.W.
39.00	Coule 20 ft wide, 6 ft deep bears S.E.
40.00	Set a sandstone 18x6x6 ins, 12 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; dug pits 18x18x12 ins, E and W of stone, 5 $\frac{1}{2}$ ft dist., and raised a mound of earth $1\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base along sides.
47.00	Ascend over broken ground.
64.40	Leave underbrush.
68.20	Ridge 100 ft high bears S. 50° W.
68.40	Ledge of rock 70 ft high bears N 70° E.
68.60	descend.
68.40	Bottom enter dense high greasewood undergrowth.
78.60	Fence bears S 60° W
80.00	Set a sandstone 18x10x6 ins, 12 ins in the ground for cor to Tps 19 and 20 S. Rs 25 and 26 E, marked with 6 notches on N. E. and W edges; dug pits 24x18x12 ins lengthwise on each line N. E. and W of stone 6 ft dist., and raised a mound of earth $2\frac{1}{2}$ ft high, 5 ft base along sides.
	Land mountainous and river bottom; soil stony, 4 th rate and sandy loam, 1 st rate, on bottom.
	Heavy scrub cedar timber or dense undergrowth on 43.60 chs. ✓
	Mountainous on 68.40 chs. ✓

June 20th 1894

My instructions require me to run the E bdy from the standard cor to Rs 25 and 26 E. As shown in my notes of the survey of the 4th Standard Parallel South it is impossible to set this cor. Therefore run the E bdy from the cor to Tps 19 and 20 S. Rs 25 and 26 E. South. Set the first $\frac{1}{4}$ sec. cor. in the same latitude as the corresponding cor on the W bdy.

East Bdy of T20S R25E D.S. NW.

- From the cor to Tps 19 and 20 S, R 25 and
26 E I run
I on a true line bet secs 1 and 6
Va $15^{\circ}04' E$
- 0.86 Present track R.G.W Ry bears $N 50^{\circ} E$
1.01 Set a back sight ht for future use.
1.63 Rig ht bank of Grand river, set a
sandstone $24 \times 12 \times 4$ ins., 18 ins in the
ground for meander cor. to fractional
secs 1 and 6, marked M.C. on N face; dug
a pit $3 \times 3 \times 1$ ft 8 lbs W of stone and raised
a mound of earth 2 ft high, $4\frac{1}{2}$ ft base
along side.
I now set flag on S side of river on
my line. From this point I measure
a base W 5.00 chs.
From the W end of this base my back-
sight at 1.01 chs. bears $N 9^{\circ}21'E$; therefore
distance to point on S side of river is
 $1.01 \text{chs} + 5 \times \cot 9^{\circ}21' = 1.01 + 5 \times 6.073 = 31.37$
chs. I now measure N 5.60 chs to
25.77 Left bank of Grand river, set a charred
post 4 ins square, 4 ft long, with marked
stone 12 ins in the ground, for meander
cor. to fractional secs. 1 and 6, marked
M.C. on N face; R 26 E S. 6 on E.; T 20 S
on N and R 25 E S 1 on W; dug a pit
 $3 \times 3 \times 1$ ft 8 lbs S of post and raised a
mound of earth 2 ft high, $4\frac{1}{2}$ ft base
around post.
Over level ground through dense willow
underbrush.
39.00 Along h 6 ft wide, 2 ft deep bears S.W.
42.11 Set a post 4x4 ins. 4 ft long, with marked
stone, 12 ins in the ground, for $\frac{1}{4}$ sec
cor., marked $\frac{1}{4} S$ on W face; dug pits
 $18 \times 18 \times 12$ ins N and S of post $5\frac{1}{2}$ ft dist,
and raised a mound of earth $1\frac{1}{2}$ ft
high $3\frac{1}{2}$ ft base around post.
Thos. Brandois Cabin bears W 4 chs.
Fence bears E and W.

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East. Bdy. of T. 20 S. R. 25 E. D. L. M.

56.39	A cottonwood tree, 8 ins in diam., a live tree marked with 2 notches on N, and 2 notches on S sides.
82.11	Set a sandstone 18x9x6 ins, 12 ins. in the ground, for cor. to secs 1, 6, 7 and 12, marked with 1 notch on N and 5 notches on S edge, from which, A cottonwood tree 14 ins in diam. bears N 81° 30' E 19 lfts dist. marked T 20 S R 26 E. A. 6 B.T.
56.34 2577	A cottonwood tree 5 ins in diam. bears S 49° 30' E 65 lfts dist, marked T 20 S R 26 E A 7 B.T.
	A cottonwood tree 10 ins. in diam. bears. S 88° 30' W 38 lfts dist marked T 20 S R 25 E A 12 B.T.
	A cottonwood tree 14 ins in diam. bears. N 6° W 40 lfts dist marked T 20 S R 25 E A. 1 B.T.
	Land nearly level river bottom; soil, alluvial 1st rate. Cottonwood timber and dense under growth on 56.34 chs. ✓
	Down a tree live bet. secs. 7 and 12 Va 15° 0' 2" E
1.94	Through heavy cottonwood timber Brandis fence bears E and W.
2.35	Brandis fence bears W and S.E.
8.60	John Brandis house 20 lfts E
13.19	A cottonwood tree 18 ins in diam., a live tree, marked with 2 notches on N and S sides.
25.60	Fence bears N 70° E live timber; enter cultivated land.
34.50	Leave cultivated land, ascend steep hill.
40.00	Set a sandstone 16x10x6 ins 10 ins in the ground, for 1/4 sec. cor., marked 1/4 on W face; raised a mound of stone 1 1/2 ft high 2 ft base along side. Pts. imp.

100

East Bdy of T. 20 S. R. 25 E. D. L. M.

40.10	Bottom of cliff 150 ft high bears 780° E From top of this cliff I take a back-sight on any line and find the variation to be $15^{\circ} 12'$ E or the mean declination at this point is $15^{\circ} 4' E$.
43.60	From top of cliff as one steps slope to Ridge 250 ft above river bears 080° W
50.00	Gulch bears W
57.60	Ridge bears 070° W. The mag. va. is $15^{\circ} 2' E$ here.
65.60	Top of ledge 100 ft high; descended enter dense artemesia undergrowth
67.00	Coule bears from N.E. to S.W.; ascend over sandhill 60 ft high, to
80.00	Set a sandstone 14x9x6 ins. 10 ins in the ground for cuts secs. 7, 12, 13 and 18 marked with 2 notches on N., and 4 notches on S. edge; dug pits 18x18x12 ins, in each sec. $5\frac{1}{2}$ ft dist., and raised a mound of earth 2 ft high, $4\frac{1}{2}$ ft base along side. Sand, mountainous and river bottom; soil stony 4 th rate and alluvial 1 st rate. Heavy cottonwood timber or underbrush 40.00 chs.
	Mountainous on 40.50 chs.

June 28th, 1894 X

14.30	On a tree line bet. secs. 18 and 18 To $15^{\circ} 25' E$
27.00	Through dense artemesia undergrowth.
35.50	Descend.
40.00	Coule bears 030° W.
49.50	Wash in gulch 50 ft deep bears W. Coule bears $N 70^{\circ} W$ Set a sandstone 15x12x3 ins, 10 ins in the ground, for $\frac{1}{4}$ sec. cor., marked 'N' on W face, dug pits 18x18x12 ins N. and S. of stone, $5\frac{1}{2}$ ft dist., and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base, alongside. Coule bears $N.W.$

East Bdy. of 920 S.R. 25 E. D.L. M.

58.50	Coulee bears W.
62.60	Ledge 15 ft high, bears E.
63.50	Wash in gulch 20 ft deep bears W.
68.80	Wood road bears N.E.
72.80	Coulee bears W.
80.00	Set a sandstone 18x13x4 ins, 12 ins in the ground, for cor to secs. 13, 18, 19 and 24 marked with 3 notches on N and S edges; dug pits 18x18x12 ins, in each sec. 5½ ft dist. and raised a mound of earth 2 ft high, 4½ ft base alongside. Land rolling, soil sandy and gravelly 3 rd rate. A few cedars along line. Dense artemesia undergrowth on 80.00 chs.
	On a tree line bet. secs. 19 and 24 Va 15° 17' E
3.00	Through dense artemesia undergrowth. Enter heavy scrub cedar timber; leave underbrush.
5.90	Coulee bears W
23.80	Wash in gulch 30 ft deep bears N.W.
40.00	Set a sandstone 18x12x5 ins, 12 ins in the ground for ¼ sec. cor, marked ¼ on W face; dug pits 18x18x12 ins, N and S of stone, 5½ ft dist, and raised a mound of earth 1½ ft high, 3½ ft base alongside. No bearing trees available.
68.00	Foot of steep ascent.
80.00	Set a sandstone 24x17x4 ins 18 ins in the ground for cor to secs. 19, 24, 25 and 30, marked with 4 notches on N and 2 notches on S edge; raised a mound of stone 1½ ft high, 2 ft base, alongside. Pits imp. No bearing trees available. Land mountainous; soil, stony, 4 th rate. Heavy scrub cedar timber or dense artemesia undergrowth on 80.00 chs. Mountainous on 80.00 chs.
	June 30 th , 1894
	It is impossible to run this line further

East Bdy of T. 20 S. R. 25 E. D. S. M.

owing to high and impassable cliffs
about 30 chs. N. These cliffs are
apparently inaccessible for several
miles in either direction E or W.

For general description of this town-
ship see subdivisinal notes of
same.

Frank E. Baxter
U. S. Dep. Surveyor.

Volume

#

R0236

List of Names.

A list of the names of the individuals employed by , U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the

..... Meridian, in , showing
e respective capacities in which they acted :

Final Oath of Assistants:

We hereby certify that we assisted , U. S. Deputy Surveyor, in surveying all
se parts or portions of the

..... Meridian, , as are represented in the
e going field notes as having been surveyed by him and under his direction; and that said survey has been in all
pects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
ording to the instructions furnished by the U. S. Surveyor General for

scribed and sworn to before me this }
day of , 18 }



Final Oath of U. S. Deputy Surveyor.

I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, the surveying manual, and the laws of the United States, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Subscribed and sworn to before me this _____
day of _____, 18_____. }
 }

U. S. Deputy Surveyor.



Approval.

Office of the U. S. Surveyor General,

Salt Lake City, June 6th, 1895.

The foregoing field notes of the survey of the Extra lines of Township
20 south Range 25 east of the Salt Lake Base and
Meridians of the Territory of Utah

executed by
Frank E. Baxter
under his Contract No. 196, dated January 18th, 1894, having been critically
examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are
hereby approved.

George W. Snow
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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K. J. B.

FIELD NOTES

OF THE SURVEY OF

The Fourth Standard Parallel South
 Through Part of Range 25 East

Of the Salt Lake Meridian,

Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,
 under his Contract No. 196, dated January 18th, 1894.
 Survey commenced June 18th, 1894.
 Survey completed June 18th, 1894.

2. 61. 000

To 30' from mouth of canon near N. 70° W.

Names and Duties of Assistants.

Daniel Morris	Chairman
Wallace Watson	Chairman
George White	Chairman
Edward Redmond	Chairman
Edward Redmond	Assistan.
Lovell Wells	Playman.

Volume

#

R0236

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*South Standard Parallel South
Township _____, Range 25 E.*

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Meanders Page.....

Preliminary Oaths of Assistants.

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman

Subscribed and sworn to before me this }
day of , 18 }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this }
day of , 18 } , Axeman.

, Axeman.

26.

Fourth Standard Parallel S. Through R 25 E. I.d. M.

Survey commenced June 18th 1894
From the standard cor. to T 20 S. R 24 and 25
E., Lat. $39^{\circ} 52' N$ Long. $109^{\circ} 13' W$, which is a cor.
re-established by myself in the resurvey
of the W bdy of T 20 S. R 25 E.

I run E on the S bdy of sec 31.

Va $15^{\circ} 00' E$

Through dense artemesia undergrowth,
over rolling ground.

8.00 Low ridge bears N.E.

30.10 Coulter bears S.W.

40.00 Set a sandstone 16x6x5 ins, 10 ins in the
ground for standard 1/4 sec. cor. marked
S.C. $\frac{1}{4}$ on N face; dug pit 18x18x12 ins.,
E and W of stone, $5\frac{1}{2}$ ft dist. and raised a
mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base
alongside.

42.50 Sandy ridge bears $N 60^{\circ} E$.

55.00 Leave dense artemesia undergrowth

60.00 Top of stony ridge; descend to

67.00 Wash in cañon 125 ft deep, bears S.W.

79.00 Top of ridge bears N.E.

80.00 Set a sandstone 18x18x4 ins 12 ins in the
ground for standard cor. to secs 31 and
32, marked S.C. on N. with 5 grooves on
E and 1 groove on W face; dug pit 18x18x12
ins E and W $3\frac{1}{2}$ ft, and N of stone 7 ft dist.
and raised a mound of earth 2 ft high
 $\frac{1}{4}$ ft base alongside.

Sand, rolling and mountainous; soil
sandy and stony 3rd rate.

Dense artemesia undergrowth on
55.00 ods. N. ...

Mountainous on 40.00 ods.

No timber.

E on S bdy of sec 32.

Va $15^{\circ} 00' E$

7.00 Wash in gulch 50 ft deep bears S.W.

22.60 Coulter 10 ft wide, 10 ft deep bears S.W., descend

26.33 Ledge of rock 70 ft high bears SSW.

28.30 Wash in bottom of cañon bears $S 70^{\circ} W$.

Fourth Standard Parallel A through R 25 E. D. L. M.

	ascend over broken ground to .
11.00	Marked D.C. $\frac{1}{4}$ with cross at exact cor. point on a ledge of sandstone for standard $\frac{1}{4}$ sec. cor. and raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. Pits impr.
63.00	Top of ridge 200 ft high, bears N.E.; entire surface artemesia undergrowth.
69.00	Top of ridge bears N and S.W.; descend
76.00	Foot of steep descent.
80.00	Set a sandstone 16x12x5 ins. 10 ins in the ground for standard cor. to secs. 32 and 33, marked D.C. on N; with 4 grooves on E. and 2 grooves on W face; dug pits 18x18x12 ins E and W, $3\frac{1}{2}$ ft and 2 ft of stone 7 ft dist. and raised a mound of earth 2 ft high, $4\frac{1}{2}$ ft base alongside. Sand, mountainous; soil sandy and stony, 4th note. A few cedars along line. Dense artemesia undergrowth on 17.00 chs. Mountainous on 80.00 chs.
E on line of Sec 33 Va $14^{\circ}56' E$	
	Ascend through dense artemesia undergrowth.
5.00	Enter heavy scrub cedar timber; leave undergrowth.
17.50	Coulter bears S.W.
30.50	Ridge bears N and S; descend.
38.30	Wash in canon 100 ft deep bears N.W.
40.00	Set a sandstone 16x12x3 ins 10 ins in the ground, for standard $\frac{1}{4}$ sec. cor., marked D.C. $\frac{1}{4}$ on N face, raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base, alongside. Pits impracticable. No available bearing trees.
58.00	Top of mountain 500 ft above Grand river; descend.
61.00	It is impracticable to set a stone in the

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Fourth Standard Parallel S. through R. 25 E. S.S. M.

ground, I therefore set a sandstone
20x8x6 ins. in a mound of stone $1\frac{1}{2}$ ft
high 2 ft base for witness cor. to
standard cor. to secs 33 and 34, marked
W.C. D.C. on N, 3 grooves on E, and 3
grooves on W face. Pits imp.
No available bearing trees.

This cor. is on the edge of a perpendicular
cliff 250 ft high, forming
part of the right wall of the canon
of the Grand river. It is impossible
to run this line further.

Land, mountainsous; soil sandy and
stony 3rd and 4th rate.

Heavy cedar timber or undergrowth
on whole line

Mountainsous on 61.00 chs.

June 18th 1894

This line runs over the western slope of
the mountains forming the right wall
of the box canon of Grand river.

The land is sandy and stony and mostly
covered with a heavy growth of scrub
cedar timber and artemesia undergrowth.
The lands on both sides of the line should
be subdivided.

Frank E. Baxter
U. S. Dep. Surveyor.

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List of Names.

A list of the names of the individuals employed by
....., U. S. Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of the

..... Meridian, in , showing
the respective capacities in which they acted :

Final Oath of Assistants:

We hereby certify that we assisted
....., U. S. Deputy Surveyor, in surveying all
parts or portions of the

..... Meridian, , as are represented in the
going field notes as having been surveyed by him and under his direction; and that said survey has been in all
parts, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
according to the instructions furnished by the U. S. Surveyor General for

-cribed and sworn to before me this }
day of , 18 }



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Final Oath of U. S. Deputy Surveyor.

I, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from U. S. Surveyor General for , bearing date of the day of , 18 I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for , the surveying manual, and the laws of the United States, surveyed all those parts or portions of

..... Meridian, in the as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

U. S. Deputy Surveyor.

Subscribed and sworn to before me this }
day of , 18 }



Approval.

Office of the U. S. Surveyor General,

Dakota & Wyo June 6, 1895

The foregoing field notes of the survey of *The Fourth Standard Parallel*
South through part of Range 25° East of the Dak
ota Base Meridian Territory of Wyo

executed by
Frank E. Baxter
under his Contract No. 196, dated January 18th, 1894, having been critically
examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are
hereby approved.

George W. Snow
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in
....., has been correctly copied from the original notes on file in this office.

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J. F. B.

J. F. B.

FIELD NOTES

OF THE SURVEY OF

The Subdivision of Township 20 South
 Range 25 E.

Of the Salt Lake Meridian,

Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

under his Contract No. 196, dated January 18th 1894.

Survey commenced June 18th, 1894.

Survey completed July 3rd, 1894.

T	1. 2. 3. 4. 5.	
L.	2. 3. 4. 5.	47.30 80
Per 4	6. 14. 30.	
" 5	7. 16. 08. 1	8. 30 34. 0

Names and Duties of Assistants.

Daniel Morris	Chairman
Wallace Watson	Chairwoman
Edward Redmond	Associate
Lovell Wells	Flagman

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INDEX DIAGRAM.

Township 20 S., Range 25 E.

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S O L D

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman

Subscribed and sworn to before me this }
day of , 18 . }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this , Axeman.
day of , 18 . }

, Axeman.

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Subdivision of T. 20 S. R. 25 E. D. L. M.

	Survey commenced June 18 th 1894.
	Beginning on the S body of the Tp at the standard cor to secs. 31 and 32, hereinbefore described.
11.00	N ⁰ 04' W. bet secs 31 and 32
	10 14° 56' E
11.30	Top of ridge, descend.
18.40	Wash in canon 100 ft deep bears S. W.
30.60	Top of hill bears N. E.
37.00	Wash in gulch bears S. W., enter dense artemesia undergrowth
40.00	Ridge bears N. E.
46.50	Set a sandstone 17x9x4 ins, 12 ins in the ground for $\frac{1}{4}$ sec. cor., marked with notch on N and S face; dug pits 18x18x12 ins N and S of stone 5 $\frac{1}{2}$ ft dist. and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base alongside.
59.80	Wash in gulch 40 ft deep bears S. W.
70.30	Top of sand ridge, bears S. W.
80.00	Conifer bears W
	Set a sandstone 18x12x3 ins, 12 ins in the ground, for cor to secs. 29, 30, 31 and 32, marked with one notch on S and 5 notches on E edge; dug pits 18x18x12 ins, in each sec. 5 $\frac{1}{2}$ ft dist. and raised a mound of earth 2 ft high, 4 $\frac{1}{2}$ ft base alongside.
	Land, mountainous; soil sandy and stony 3 rd and 4 th rate. No timber
	Dense artemesia undergrowth on 49.40 chs
	Mountainous on 80.00 chs.

W on a random line bet secs. 30 and 31

10 15° 00' E

40.00	Set a temporary $\frac{1}{4}$ sec. cor.
79.88	Intersect W. body of township line 4 1/16 N of cor to secs. 25, 30, 31 and 36, hereinbefore described. Thence I run N 89° 58' E on a true line bet. secs. 30 and 31.
	10 14° 51' E

Through dense artemesia undergrowth.

Descend

Bottom; there over nearly level ground.

Subdivision of T. 20 S. R. 25 E. D. L. M.

14.90	Cottonwood wash, 60 ft wide, 10 ft deep bears S. 20 W.
20.60	Coulees 10 ft wide, 4 ft deep, bears N. W.
39.88	Set a sandstone 12x9x6 ins, 8 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face, raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. Dug up.
64.70	Salt Lake wagon road bears S. W.
79.88	The cut to secs. 29, 30, 31 and 32 Land rolling; soil sandy, 3 rd rate. No timber Dense artemesia undergrowth on 79.88 chs.

June 18th 1894

	N 0° 0' W bet. secs. 29 and 30
	Va. 15° 08' E
	Through dense artemesia undergrowth
13.00	Salt Lake wagon road bears N. W.
18.00	Wash in gulch bears N 80° W.
21.00	Low ridge bears N. E.
29.00	Coulees 10 ft wide, 3 ft deep bears S 80° W.
36.00	Gully back ^{west} , 10 ft wide, 3 ft deep bears S 80° W.
40.00	Set a sandstone 12x9x6 ins, 8 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins. 4 and 5 of stone, 5 $\frac{1}{2}$ ft dist, and raised a mound of earth, $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside.
47.50	Ridge bears E.
53.80	Coulees bears W.
63.80	Coulees 6 ft wide 2 ft deep bears N. W.
77.80	Coulees bears N. W.
80.00	Set a sandstone 20x16x3 ins, 15 ins in the ground for cut to secs., 19, 20, 29 and 30; marked with 2 notches on N and 5 notches on E edge; dug pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft dist, and raised a mound of earth 2 ft high, $4\frac{1}{2}$ ft base alongside.
	Land rolling; soil, sandy loam, 3 rd rate.
	No timber
	Dense artemesia undergrowth on 80.00 chs.

S 89° 58' W on a random line bet secs 19 and 30
Va 15° 06' E

v.1

Subdivision of T. 20 S. R. 25 E. S. L. M.

40.00	Set a temporary $\frac{1}{4}$ sec. cor.
79.78	Intersect W bdg of Tp. 8 thos N of cor to secs. 19, 24, 25 and 30. hereinbefore described. Thunder run N 89°55' E on a true line bet. secs. 19 and 30. Va $15^{\circ} 06' E$
12.60	Through dense artemesia undergrowth. Coules 40 ft wide, 3 ft deep bears S.
32.80	Ascend gradually over rolling ground. Ridge bears N $20^{\circ} E$, descended 30 ft.
39.78	Set a sandstone 20x7x3 ins, 10 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins E and W of stone, 5 $\frac{1}{2}$ ft dist, and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base alongside.
48.30	Coules 10 ft wide, 3 ft deep bears S. W.
64.30	Coules 10 ft wide, 3 ft deep bears S. W.
68.60	Same coules bears N. W.
79.78	The cor to secs. 19, 20, 29, and 30. Land. rolling; soil, sandy 3 rd rate. No timber.
	Dense artemesia undergrowth on 79.78 chs.

	$N 0^{\circ} 4' W$ bet secs. 19 and 20 $Va 15^{\circ} 06' E$
	Through dense artemesia undergrowth.
0.70	Coules bears W.
9.60	Coules bears W.
17.00	Ridge bears S. E.
39.20	Coules 20 ft wide 4 ft deep bears S $80^{\circ} W$.
40.00	Set a sandstone 18x10x6 ins, 12 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins, N and S of stone, 5 $\frac{1}{2}$ ft dist, and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base alongside. Foot of hill. ascended
53.00	Enter heavy cedar timber.
58.00	Top of hill 100 ft high bears E and W.
63.70	descend over broken ground.
65.00	Leave cedar timber.

20
Subdivision of 9.20 S. R. 25 E. S. L. N.W.

-	80.00	<p>Set a sandstone 20x8x6 ins., 15 ins in the ground, for cor to secs. 17, 18, 19 and 20, marked with 3 notches at the N. and 5 notches on the E edge; dug pits 18x18x12 ins. in each sec., 5½ ft dirt, and raised a mound of earth, 2 ft high, 4½ ft base alongside.</p> <p>Land mountainous and rolling; soil sandy and stony 3rd and 4th rate.</p> <p>Heavy cedar timber or dense artemesia undergrowth on 80.00 chs.</p> <p>Mountainous on 27.00 chs.</p>
		<p>S 89° 55' W on a random line bet. secs. 18 and 19 Va 15° 02' E.</p>
	40.00	Set a temporary ¼ sec. cor.
	79.70	<p>Intersect W bdy of township 12 lots S of cor to secs. 18, 19, 13 and 24 hereinbefore described. Then I run E on a true line bet. secs. 18 and 19</p> <p>Va 15° 02' E</p>
		<p>Ascend over stony ground</p>
	7.20	Top of hill 200 ft high; descend.
	15.00	Wash in gulch bears S 20° E
	17.10	Ridge bears S. E.
	23.70	Head of gulch bears S.
		Enter dense artemesia undergrowth
	39.70	<p>Set a sandstone 14x10x9 ins., 9 ins in the ground, for ¼ sec. cor., marked ¼ on N face; dug pits 18x18x12 ins. E and W of stone 5½ ft dirt and raised a mound of earth 1½ ft high, 3½ ft base alongside.</p>
	43.20	Couleis bears E.
	46.20	Couleis 60 ft wide bears S. W.
	57.70	Ridge 40 ft high h. bears N. E.
	60.30	Ledge of rock 10 ft high h. bears S. W.
	64.90	Couleis 20 ft wide, 3 ft deep bears S. W.
	74.55	Present track R. G. W. Ry bears S 60° W.
-	79.70	The cor to secs. 17, 18, 19 and 20.
		Land mountainous and rolling; soil stony 4 th rate, and sandy 3 rd rate.

Subdivision of 920 D. R. 256. S.L. M.

No timber.

Dense artemesia undergrowth on 56.00 chs.
Mountainous on 39.70 chs.

N^o 0° 04' W bet secs 17 and 18

to 15° 08' E

Through dense artemesia undergrowth

Present track R. G. W. Ry bears S 60° W.

Coules bears W.

Coules bears S. W.

Point of ridge 20 ft high bears E.

Coules bears S. W.

Set sandstone 17x7x5 ins, 11 ins in the ground
for 1/4 sec. cov., marked 1/4 on W face; dug
pits 18x18x12 ins, Hand & of stone .5 ft dist
and raised a mound of earth 1 1/2 ft high
3 1/2 ft base alongside.

From 1/4 sec cov. section house at Cotton-
wood station on R. G. W. Ry bears S 52° 10' E
250 ft dist.

Present track R. G. W. Ry bears S 20° E.

Foot of stony hill, ascend.

Leave dense artemesia undergrowth

Top of hill 30 ft high bears N. E.

Present track R. G. W. Ry. bears N 30° E

Top of hill descend

Wash in gulch bears E

Point of hill bears W.

Coules bears E

Set a sandstone 18x7x6 ins 12 ins in the
ground, for car to secs. 7, 8, 17 and 18, marked
with 4 notches on N and 5 notches on E edge,
raised a mound of stone 1 1/2 ft high h
2 ft base alongside. Pits imp.

Land mountainous and level, soil stony, 4th
rate and sandy, 3rd rate.

No timber.

Dense artemesia undergrowth on 52.00 chs.

Mountainous on 28.00 chs.

Subdivision of T 20 S. R 25 E. D. L. M.

	W on a random line bet. secs. 7 and 18 Va 15°06' E
40.00	Set a temporary 1/4 acre cor.
79.71	Intersect W bdy of Twp. 14 line N of cor to secs. 7, 12, 13 and 18 hereinbefore described. Thence I run N 89°54' E on a true line bet. secs. 7 and 18 Va 15°06' E
0.50	Through dense artemesia under growth.
7.70	Top of hill bears N.E. descends 100 ft to Wash in gulch bears S.W.
14.00	Enter heavy scrub cedar timber
21.20	Top of hill
39.71	Set a sandstone 18x9x6 ins., 12 ins in the ground for 1/4 sec. cor., marked 1/4 on W face; dug pits 18x18x12 ins., E and W of stone, 5 1/2 ft dist. and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside. No bearing trees available.
47.00	Cedar cedar timber
47.20	Top of hill bears N.E.; descends steep slope 200 ft.
66.50	Ridge bears S.W. descends 100 ft to.
70.20	Wash in gulch bears N.
75.90	Ridge 75 ft high bears N
78.20	Bottom of steep slope.
79.71	The cor. to secs. 7, 8, 17 and 18. Land, mountainous; soil, stony, 4 th rate. Cedar timber on 38.00 chs. Mountainous on 79.71 chs.

June 19th 1894

This evening I set my instrument on
D bdy of township at the cor to secs 32
and 33 and at 8:35 P.M. mean local time
I direct my telescope to Polaris and at
5 chs N draw a picket on line.
Local ast. mean time of obs June 18 32^h 35^m

U. C Polaris June 15th 19^h 40.3^m

Get diff 3 days sub. 11.8

U. C Polaris June 18th 19^h 28.5^m

Which latter from time of obs is 13^h 06.5^m

Subdivision of T. 2 S. R. 25 E. D. C. M.

The hour angle of Polaris:

$$23^{\text{h}} 56^{\text{m}} - 13^{\text{h}} 06.5^{\text{m}} = 10^{\text{h}} 49.5^{\text{m}}$$

The argument
for table 2

Az. Polaris Lat 39° N Table 2 = 28.5° E

June 19th 1894

At 7 A. M. June 21st I find the mag. bearing of the line established as above to be

$N 14^{\circ} 36' W$

Az. Polaris E-add 285

The sum $15^{\circ} 04 \frac{1}{2}'$ is the declination of the needle and the mean declination is therefore $15^{\circ} 00' E$.

Hence I am $N 0^{\circ} 03' W$ bet secs 32 and 33

or $15^{\circ} 04' E$

Ascend through dense artemesia undergrowth

9.00	Ridge bears N.E.
14.00	Top of same ridge, descend.
40.00	Set a post 3x3 ins 3 ft long, with marlled stone 12 ins. in the ground for sec. cor., marked $\frac{1}{4} 0$ on W face, dug pits $18 \times 18 \times 12$ ins N and S of stone, $5\frac{1}{2}$ ft dist, and raised a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base around post.
46.00	Ridge 20 ft high bears S.W.
68.80	Cordier bears N.E.
78.50	Ridge bears S.W. and N.E. descend to
80.00	Set a post 4x4 ins, 4 ft long with marlled stone 12 ins in the ground, for cor. to secs. 28, 29, 32 and 33; marked $\frac{1}{4} 200.025$ on N.E., R 25 E 033 on S.E., 032 on S.W. and 029 on N.W. faces with 1 notch on S. and 4 notches on E edge. Dug pits $18 \times 18 \times 12$ ins. in each sec. $5\frac{1}{2}$ ft dist, and raised a mound of earth 2 ft high, $4\frac{1}{2}$ ft base alongside.
	Sand, rolling; soil sandy 3 rd rate.
	No timber
	Dense artemesia undergrowth over 80.00 chs.

Subdivision of T. 20 S. R. 25 E. S. L. M.

	W on a random line bet. secs. 29 and 32 Va $15^{\circ}07' E$
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
79.86	Intersect cor to secs 29, 30, 31 and 32 Thence I run C on a true line bet. secs 29 and 32 Va $15^{\circ}07' E$
16.90	Through dense artemesia undergrowth Coule bears N.W.
32.50	Coule 8 ft wide 3 ft deep bears $N 80^{\circ} W$
34.00	Enter heavy scrub cedar timber; ascend.
39.93	Set a sandstone 20x10x4 ins., 10 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; dug pits 18x18x12 ins. E and W of stone, $5\frac{1}{2}$ ft dist., and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside. No available bearing trees.
59.00	Top of hill bears N and S; leave cedar timber. Descend over rolling ground to
79.86	The cor to secs. 28, 29, 32 and 33. Land rolling; soil sandy 3^{rd} rate. Dense artemesia undergrowth or heavy scrub cedar timber on 79.86 chs.
	$N 0^{\circ}03' W$ bet. secs 28 and 29 Va $15^{\circ}01' E$
40.00	Over rolling ground, through dense artemesia undergrowth.
42.50	Set a sandstone 20x12x4 ins. 10 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins. N and S of stone $5\frac{1}{2}$ ft dist., and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside. Ridge bears N.E. and S.W.
58.90	Coule bears W.
80.00	Set a sandstone, 20x10x4 ins., 10 ins in the ground, for cor to secs. 20, 21, 28 and 29 marked with 2 notches on S and 4 notches on E edge; dug pits 18x18x12 ins in each sec., $5\frac{1}{2}$ ft dist and raised a mound of earth $1\frac{1}{2}$ ft high $4\frac{1}{2}$ ft base

Subdivision of T. 20 S R. 25 E. D.L. NW.

	along side. Land rolling; soil sandy 3 rd rate. No timber. Dense artemesia undergrowth on 80.00 chs.
	W on a random line bet. secs. 20 and 29 Va 15° 05' E
40.00	Set a temporary 1/4 sec. cor.
79.82	Intersect N and S line 5 1/2 chs. N of cor to secs. 19, 20, 29 and 30. Thence I run N 89° 58' E on a true line bet. secs. 20 and 29 Va 15° 05' E
21.60	Through dense artemesia undergrowth Coulees bears S 80° W; as ced.
35.60	Enter heavy scrub cedar timber
39.91	Set a sandstone 30x18x3 ins, 22 ins in the ground for 1/4 sec. cor., marked 1/4 on N face; dug pits 18x18x12 ins, E and W of stone, 5 ft. ft dist, and raised a mound of earth 1 1/2 ft high, 3 1/2 ft base along- side. No bearing trees available.
52.10	Top of hill bears N E
55.20	Wash in gulch 40 ft deep bears S.W.
57.60	Leave cedar timber.
58.60	Top of sandy ridge bears W
72.30	Salt Lake wagon road bears W.E.
79.82	The cor. to secs. 20, 21, 28 and 29. Land mountainous and rolling; soil sandy and stony 3 rd and 4 th rate. Dense artemesia undergrowth or heavy scrub cedar timber on 79.82 chs.
	N 0° 0' 3 W bet. secs. 20 and 21 Va 15° 02' E
7.10	Through dense artemesia undergrowth Salt Lake wagon road bears W.E.
21.00	Enter heavy scrub cedar timber, as ced.
36.00	Ridge 70 ft high bears W.E.
37.00	Leave cedars
40.00	Set a sandstone 15x10x4 ins, 10 ins in

Subdivision of T 20 S. R 25 E. S. L. M.

the ground. For $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits $18 \times 18 \times 12$ ins N and S of stone, $5\frac{1}{2}$ ft deep, and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base along sides.

- 49.80 Couleⁱ bears $W 60^{\circ} W$.
 52.00 Enter heavy scrub cedar timber
 61.50 Ridge 50 ft high bears N.E..
 73.30 Head of gulch bears W.
 78.00 Ridge 100 ft high bears E and W; descends
 - 80.00 Set a sandstone $18 \times 10 \times 5$ ins 12 ins in the
 ground for cor. to secs. 16, 17, 20 and 21,
 marked with 3 notches on S and 4 notches
 on E edge; raised a mound of stone $1\frac{1}{2}$
 ft high, 2 ft base along sides. Pits imp.
 Land mountainous and level; soil
 stony, 4th rate and sandy 3rd rate.
 Dense artemesia in dry growth with
 some heavy scrub cedar timber on
 80.00 chs.
 Mountainous on 59 chs.

June 21st, 1894

From the cor. to secs. 28, 29, 32 and 33
 I run E on a true line bet. secs 28 and 33
 $10^{\circ} 0' 0'' E$

- Through dense artemesia in dry growth
 2.00 Ridge bears $N 60^{\circ} E$; descend
 12.80 Couleⁱ bears $W 60^{\circ} E$
 14.80 Ridge 30 ft high bears S.W.
 Enter heavy scrub cedar timber
 34.80 Wash in gulch 50 ft deep bears $N 10^{\circ} E$; the
 bottom of this gulch is 200 ft lower than
 last sec. cor. Ascend gradually over W slope
 of mountain.
 40.00 It is impracticable to set a stone in the
 ground, I therefore set a sandstone $14 \times 12 \times 3$ ins
 in a mound of stone $1\frac{1}{2}$ ft high 2 ft base
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face. Pits
 imp. No bearing trees available.
 40.50 Ridge 40 ft high bears N.E.

-25

Subdivision of 9.20 S. R. 25 E. A. L. M.

48.00	Wash in gulch 40 ft deep bears N.W. It is impracticable to set stone in the ground, I therefore set a sandstone 18x12x6 ins, in a mound of stone 1½ ft high & ft base for cor. to secs. 27, 28, 33 and 34, marked with 1 notch on N, and 3 notches on E edge. Pits imp. No bearing trees available. Land mountainous, soil sandy and stony 3rd and 4th rate. Dense Artemesia undergrowth or heavy scrub cedar timber on 80.00 chs.
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E on a tree line bet. secs 27 and 34

Va $15^{\circ}07' E$

2.00	Through heavy scrub cedar timber Ridge bears N.E.
4.50	Wash in gulch 20 ft deep bears S.
40.00	Wash in gulch 25 ft deep bears $160^{\circ} W$ It is impracticable to set a stone in the ground, I therefore set a sandstone 20x10x4 ins, in a mound of stone 1½ ft high, 2 ft base for ¼ sec. cor., marked ¼ on N face. Pits imp. No bearing trees available.
59.80	Top of mountain, descend.
62.60	Marked a cross, at exact corner point, on a sandstone ledge for witness cor to cor to secs. 26, 27, 34 and 35, with W.C. on N of cross, 1 notch on N, and 3 notches on E of cross, raised a mound of stone 1½ ft high, 2 ft base alongside. No bearing trees available. This cor. is at the edge of the canon of the Grand river, which is 500 ft deep here and impassable. Land mountainous, soil stony 4th rate. Heavy scrub cedar timber on 62.60 chs.

From the cor to secs 27, 28, 33 and 34

I run, $N 0^{\circ} 2' W$ bet. secs. 27 and 28

Va $15^{\circ}02' E$

Subdivision of 920 S. R 25 E. A. L. M.

	Through heavy scrub cedar timber
19.00	Coulees bears W.
34.50	Coulees bears N.W.
40.00	Set a sandstone 18x17x2 ins, 12 ins in the ground for 1/4 sec. cor., marked 1/4 on W face; dug pits 18x18x12 ins, N and S of stone 5 1/2 ft dist, and raised a mound of earth 1 1/2 ft high. 3 1/2 ft base alongside. No bearing trees available.
42.70	Wash in gulch 40 ft deep bears W
60.30	Coulees bears N.W.
80.00	Set a sandstone 16x12x3 ins 10 ins in the ground, for cor to secs. 21, 22, 27 and 28. marked with 2 notches on N and 3 notches on E, raised a mound of stone 1 1/2 ft high 2 ft base alongside. Pits unp. No bearing trees available. Land rolling; soil sandy and stony & thin rate. Heavy scrub cedar timber on 80.00 chs.

	W on a random line bet. secs 21 and 28 Va 14058' E
40.00	Set a temporary 1/4 sec. cor.
79.90	Intersect N and S line 14 1/2 ins N of cor. to secs. 20, 21, 28 and 29. Then run N 89° 5' E on a true line bet. secs. 21 and 28. Va 14058' E
12.00	Through dense Artemesia under growth
18.50	Enter heavy scrub cedar timber; ascend Ridge bears N.
20.50	Leave cedar timber
31.00	Top of ridge bears N 30° E, descend.
39.90	Set a sandstone 20x14x3 ins 15 ins in the ground, for 1/4 sec. cor., marked 1/4 on N face; dug pits 18x18x12 ins. E and W of stone 5 1/2 ft dist, and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside.
68.00	Land ridge 30 ft high bears N.E.
72.40	Enter heavy scrub cedar timber.
76.20	Coulees 10 ft wide 2 ft deep bears S.W.

Subdivision of 9.2 of R. 25 E. S. L. M.

79.90	The car to secs. 21, 22, 27 and 28. Land rolling and hilly; soil sandy; 3 rd rate. Heavy scrub cedar timber or dense artemesia under growth on 79.90 chs.
40.00	E on a tree line bet. secs. 22 and 27 Va 15° 00' E Ascend through heavy scrub cedar timber. It is impracticable to set a stone in the ground, I therefore set a sandstone 20x6x5 ins. in a mound of stones, 1 $\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face. Pits up. No bearing trees available. The wall of the canon of Grand river is 5 chs E of the $\frac{1}{4}$ sec. cor. The canon at this point is about 500 ft deep with nearly vertical walls. Land mountainous, soil stony & bare Heavy scrub cedar timber on 40.00 chs.
0.70	From the car to secs. 21, 22, 27 and 28 I run N 0° 02' W bet secs. 21 and 22 Va 14° 05' 8" E Through heavy scrub cedar timber. Coule 8 ft wide 3 ft deep bears W.
3.00	Ridge 20 ft high bears N.E.
6.50	Coule 4 ft deep bears W.W.
12.70	Sandy ridge 30 ft high bears N.E.
31.00	Wash in gulch 40 ft deep bears N.W.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 12x8x4 ins. in a mound of stones 1 $\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face. Pits up. No bearing trees available.
43.70	Coule 10 ft wide, 10 ft deep bears W.
47.50	Ridge 30 ft high bears E
63.50	Coule bears W.W.
71.70	Wash in gulch 40 ft deep bears N 70° W
78.50	Wash in gulch 30 ft deep bears N 80° W.
80.00	Set a sandstone 21x14x2 ins 16 ins in the ground, for cor. to secs. 15, 16, 21 and 22, marked with 3 notches on S, and 3 notches

Subdivision of T. 20 S. R. 25 E. D. L. W.

on E edge, raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside. No bearing trees available.
Line runs over W slope of mountain
Land hilly; soil sandy and stony & th rate.
Heavy scrub cedar timber on 80.00 chs.

D 89°54' W on a random line bet. secs. 16 and 21
Va. $15^{\circ}00' E$

- 40.00 Set a temporary $\frac{1}{4}$ sec. cor.
79.95 Intersect N and D line 19 ft N of cor. to
secs. 16, 17, 20 and 21.
Thence run, D 89°58' E on a true line bet.
secs 16 and 21.
Va $15^{\circ}00' E$
Through heavy scrub cedar timber
along N side of hill.
10.50 Ridge bears N.
22.80 Wash in gulch 60 ft deep bears W.
28.00 Wash in gulch 20 ft deep bears N.
29.00 Leave cedar timber; enter dense artemesia
undergrowth.
30.00 Top of ridge 30 ft high bears N.
39.98 Set a sandstone $16 \times 12 \times 3$ ins 10 ins in the
ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N
face; dug pit $18 \times 18 \times 12$ ins E and W of
stone, $5\frac{1}{2}$ ft dist. and raised a mound
of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base alongside.
Enter sand dunes
59.50 Salt Lake wagon road bears S.W.
60.60 Wash in gulch 30 ft deep bears N.
62.40 Wash in gulch 30 ft deep bears N.W.
Enter heavy scrub cedar timber; ascend
150 ft to.
79.95 The cor to secs. 15, 16, 21 and 22.
Land mountainous; soil sandy and stony
& th rate.
Heavy cedar timber or dense artemesia
undergrowth on 79.95 chs.

From the cor to secs 16, 17, 20 and 21 run
D 89°58' W on a random line bet. secs. 17 and 20

Subdivision of 920. S. R. 25 E. A.L.M.

	Va $15^{\circ}02' E$
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
79.96	Intersect N and D lines 9 chs. N of cor. to secs. 17, 18, 19 and 20. Thence from N $89^{\circ}54' E$ on a true line bet secs. 17 and 20
	Va $15^{\circ}02' E$
16.00	Through dense Artemesia undergrowth Foot of hill bears N and S 70 W. Ascend.
20.00	Enter heavy scrub cedar timber.
26.00	Top of hill 200 ft above sec. cor., bears S.W. and N.E.
37.00	Foot of hill bears N and D, leave cedar timber
39.98	Set a sandstone 16x9x4 ins, 10 ins in the ground for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on N face; dug pits 18x18x12 ins E and W of stone, $5\frac{1}{2}$ ft dist, and raised a mound of earth $1\frac{1}{2}$ ft high & $\frac{3}{2}$ ft base along sides.
54.40	Foot of ridge, ascend. Enter heavy scrub cedar timber.
69.40	Top of ridge bears E.
77.00	Top of hill, descend
79.96	The cor to secs. 16, 17, 20 and 21. Land mountainous and level; soil, sandy and stony 3 rd and 4 th rate. Dense Artemesia undergrowth a heavy scrub cedar timber on 79.96 chs.

June 22 1894

I test the length of my chain and the
adjustments of my instrument this
morning and find them correct.

N $5^{\circ}03' W$ bet. secs 16 and 17

Va $15^{\circ}07' E$

Descend through dense scrub cedar
timber.

11.00	Coulee bears N.E.
21.80	Coulee bears. E
26.00	Coulee bears E
39.00	Ridge 60 ft high bears N.E. and S.W.
40.00	It is impracticable to set a stone in the

Subdivision of 920 S. R. 25 E. S. L. M.

	ground, I therefore set a sandstone 18x18x5 ins. in a mound of stone 1½ ft high. 2 ft base, for ¼ sec. cor., marked ¼ on W face. Pits imp. No bearing trees available.
54.00	Foot of ridge
58.40	Couleis bears N.W.
64.20	Wash in gulch 60 ft deep bears W
67.70	Point of ridge 80 ft high bears E.
71.00	Foot of steep descent. Descend gradually
77.30	Couleis bears N.E.
- 80.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 12x 12x5 ins. in a mound of stone 1½ ft high 2 ft base, for cor. to secs. 8, 9, 16 and 17, marked with 4 notches on N, and 4 notches on E edge. Pits imp. No bearing trees available. Land mountainous; soil stony & th. rate. Heavy scrub cedar timber on 80.00 chs.
	$\Delta 89^{\circ} 5' W$ on a random line bet secs 8 and 17 $Va 15^{\circ} 0' E$
40.00	Set a temporary ¼ sec. cor.
80.03	Intersect N and S line 19 ft to D of cor to secs. 7, 8, 17 and 18 Hence $\Delta 89^{\circ} 8' E$ on a true line bet secs. 8 and 17. $Va 15^{\circ} 0' E$
	Through dense artemesia undergrowth
6.90	Couleis bears W.E.
9.70	Present track R.G.W.Ry bears N 20° W
10.50	Couleis 10 ft wide 3 ft deep bears N.E.
36.70	Point of mountain bears S.W.
39.50	Couleis bears N
40.01	Set a sandstone 16x9x3 ins. 12 ins in the ground, for ¼ sec. cor., marked ¼ on N face; raised a mound of stone 1½ ft high, 2 ft base alongside. Pits imp. Foot of hill; ascend. Enter heavy scrub cedar timber
44.00	

Subdivision of T. 20 S. R. 25. E. S. L. M.

47.00	Top of hill, 75 ft high, bears N.E. and S descend
68.20	Ridge 30 ft high bears N.
71.20	Coule' bears N.E.
73.40	Coule' 8 ft wide 4 ft deep bears N.
80.03	The cor to secs. 8, 9, 16 and 17 Land mountainous and broken; soil stony and sandy. 4 th and 3 rd rate. Dense artemesia undergrowth or heavy scrub cedar timber on 80.03 chs.
	N 0° 0' W lat. secs 7 and 8 Va 15° 0' E
	Through dense artemesia undergrowth.
2.50	Coule' bears N.E.
8.60	Coule' bears N.E.
11.00	Foot of hill
14.00	Top of hill 50 ft high, bears E
18.40	Top of hill; descend
22.00	Foot of hill
26.00	Coule' bears N.E.
30.00	Coule' bears S.E.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 20 x 15 x 5 ins. in a mound of stone 1 1/2 ft high, 2 ft base, for 1/4 sec cor., marked 1/4 on W face. Pits imp.
44.00	Foot of steep ascent
53.50	Top of hill 250 ft above 1/4 sec. cor. bears W.
80.00	Enter heavy scrub cedar timber; descends to set a sandstone 20 x 17 x 9 ins. 15 ins in the ground for cor to secs. 5, 6, 7 and 8, marked with 5 notches on N and 5 notches on E edge; raised a mound of stone 1 1/2 ft high, 2 ft base alongside. Pits imp. No bearing trees available. Land mountainous; soil stony 4 th rate. Scrub cedar timber. Mountainous on 80.00 chs.

Subdivision of 9.20 D. R. 25 E. A. L. M.

	D. 89°05'W on a random line bet. secs. 6 and 7 Va 15°03'E
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
79.42	Intersect W bdy of Tp. 12 1/16 W of cor to secs. 6, 7, 1 and 12 which is a corner herein - before described. Hence I run N 89°04' E on a true line bet. secs 6 and 7 Va 15°03'E
	Through dense artemesia undergrowth. Ascend over rolling ground.
14.40	Top of hill bears N and S.
39.42	Set a sandstone 17x9x3 ins, 12 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face, dug pits 18x18x12 ins. E and W of stone, 5 $\frac{1}{2}$ ft dist., and raised a mound of earth 1 $\frac{1}{2}$ ft high h, 3 $\frac{1}{2}$ ft base alongside. Couleis bears N. E.
61.20	Couleis bears N.
63.40	Enter heavy scrub cedar timber
77.30	Couleis bears N.
79.42	The cor to secs 5, 6, 7 and 8. Land rolling; soil sandy loam 3 rd rate. Dense artemesia undergrowth or heavy scrub cedar timber on 79.42 chs.
	N 0°04'W on a random line bet secs. 5 and 6 Va 15°00'E
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
81.74	Intersect N bdy of Tp. 3 1/16 W of cor to secs. 5, 6, 31 and 32 Hence I run, N 0°03' E on a true line bet. secs 5 and 6 Va 15°01'E
	Through dense artemesia undergrowth
7.90	Couleis bears N. E.
15.80	Couleis bears N.W.
41.74	Set a sandstone 16x10x4 ins 10 ins in the ground, for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins N and S of stone, 5 $\frac{1}{2}$ ft dist., and raised a mound

Subdivision of T. 20 S. R. 25 E. D. L. M.

	of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside.
49.10	Top of ridge bears E and W, descnd, 100 ft to Coule's bears E ascend.
61.70	Enter heavy scrub cedar timber.
67.70	Leave cou. to secs 5, 6, 7 and 8.
81.74	Land hilly and rolling; soil sandy loam 3rd rate. Dense artemesia undergrowth or heavy scrub cedar timber on 81.74 chs.
	From the cor. to secs 8, 9, 16 and 17 I run. No 003 Well, secs 8 and 9 Va $15^{\circ}00' E$
	Through heavy scrub cedar timber
12.80	Coule's bears N.E.
19.00	Leave cedar timber; enter dense artemesia undergrowth.
20.80	Present track R. G. W. Ridge bears $77^{\circ}80' W$ and $180^{\circ} E$
22.40	Coule's bears E foot of mountain
33.40	Top of mountain 325 ft high bears E and W
	Enter heavy scrub cedar timber, descnd.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone $18 \times 15 \times 6$ ins., in a mound of stones $1\frac{1}{2}$ ft high 2 ft base, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face. Pits up. No bearing trees available.
80.00	Set a sandstone $22 \times 15 \times 6$ ins 18 ins in the ground for cor. to secs. 4, 5, 8 and 9, marked with 5 notches on N and 4 notches on E edge; raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside. Pits up. No bearing trees available. Land mountainous and rolling; soil stony 4 th rate. Heavy scrub cedar timber or dense artemesia undergrowth on 80.00 chs.
	$W 89^{\circ}5' W$ on a random line bet secs 5 and 8 Va $15^{\circ}00' E$
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.02	Intersect N and S line 6 lms S of cor. to secs.

Subdivision of T. 20 S. R. 25 E. S. L. W.

5, 6, 7 and 8.

Thence I run, $0^{\circ} 89' 55''$ E on a true line bet. secos 5 and 8

Va $10^{\circ} 00' 6''$

Through dense artemesia undergrowth

7.00 Ridge bears S.

14.00 Wash in gulch 30 ft deep bears N.

23.50 Wash in gulch 40 ft deep bears N.

27.00 Enter heavy scrub cedar timber.

39.20 Wash in gulch 30 ft deep bears N.

40.01 It is impracticable to set a stone in the ground, I therefore set a sandstone 18x10x5 ins. in a mound of stone $1\frac{1}{2}$ ft high h 2 ft base for $\frac{1}{4}$ acre. cor., marlled $\frac{1}{4}$ on N face. This impracticable. No bearing trees available.

62.80 Coules' bears W

76.30 Coules' bears N.

-- 80.02 The cor to secs. 4, 5, 8 and 9.

Line passes along N slope of mountains.

Rand mountainous, soil stony & thin.

Heavy scrub cedar timber or dense artemesia undergrowth are 800 ft ch.

$W^{\circ} 0' 3''$ W on a random line bet. secs 4 and 5

Va $10^{\circ} 0' 2''$ E

40.00 Set a temporary $\frac{1}{4}$ sec. cor.

81.68 Intersect N bdy of township 5 miles E of cor. to secs. 4, 5, 32 and 33.

Thence I run, $0^{\circ} 0' 5''$ E on a true line bet. secs. 4 and 5

~~Va $10^{\circ} 0' 2''$ E~~

~~40.00 Set a temporary $\frac{1}{4}$ sec. cor.~~

~~81.68 Intersect N bdy of township 5 miles E of cor. to secs. 4, 5, 32 and 33.~~

~~Thence I run, $0^{\circ} 0' 5''$ E on a true line bet secs. 4 and 5~~

~~Va $10^{\circ} 0' 2''$ E.~~

Through dense artemesia undergrowth

10.80 Ridge bears S.W.

39.10 Coules' bears N.E.

Subdivision of T. 20 S. R. 25 E. P. L. P. M.

41.68	Set a sandstone 20x8x3 ins 10 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face, dug pits 18x18x12 ins N and S of stone, 5 $\frac{1}{2}$ ft dist, and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base alongside.
46.00	Enter coule ⁱ bears N 30° E and S
56.60	Leave coule ⁱ bears from N.E.
62.60	Coule ⁱ bears N.E.
81.68	The cor. to secs. 4, 5, 8 and 9. Land rolling; soil sandy loam 3 $\frac{1}{2}$ rate No timber. Desire artemesia undergrowth on 81.68 chs
	June 23 rd , 1894

From the cor. to secs. 15, 16, 21 and 22 I run, N 0° 0' W bet. secs. 15 and 16 to 15° 07' E	
Through heavy scrub cedar timber	
7.50	Coule ⁱ bears W.
37.70	Coule ⁱ bears N.E.
40.00	Set a sandstone 10x14x4 ins. 10 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face, dug pits 18x18x12 ins N and S of stone 5 $\frac{1}{2}$ ft dist, and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base, alongside. No bearing trees available.
44.00	Salt Lake wagon road bears S.W.
47.80	Wash in gulch 50 ft deep bears S.
53.00	Ridge 75 ft high bears W.
61.00	Foot of hill; have cedar timber.
70.97	Present track R. G. W. Ry bears E (on curve)
80.00	Set a sandstone 18x10x6 ins. 12 ins in the ground for cor. to secs 9, 10, 15 and 16; marked with 4 notches on S. and 3 notches on E edge, dug pits 18x18x12 ins, in each sec. 5 $\frac{1}{2}$ ft dist and raised a mound of earth 2 ft high, 4 $\frac{1}{2}$ ft base alongside. Land mountainous, and level; soil, stony and sandy 3 $\frac{1}{2}$ and 4 $\frac{1}{2}$ rate. Heavy scrub cedar timber on 61.00 chs.

Subdivision of T. 20 S. R. 25 E. A. L. M.

N 89° 58' W. on a random line bet. secs. 9 and 16.

Va. 15° 04' E

Set a temporary $\frac{1}{4}$ sec. cor.

Intersect 9 and 16 line 8 1/2 ms N of cor to secs. 8, 9, 16 and 17.

Thence I run, N 89° 59' E on a true line bet. secs. 9 and 16.

Va. 15° 04' E

Through h. heavy scrub cedar timber, descending over broken ground along N. slope of mountain.

1.60 Coule bears N. E.

12.40 Wash in head of gulch 20 ft deep bears N.

Coule bears N. E.

26.00 Leave cedar timber

40.00 Set a sandstone 15x10x 6 ins, 10 ins in the ground, for $\frac{1}{4}$ sec. cor., marbled from N. face; dug pits 18x18x12 ins, E and W of stone, 5 $\frac{1}{2}$ ft dist, and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base alongside.

41.70 Coule bears N

56.60 Coule bears N. E.

61.75 Present track R. G. W. Ry bears N. 60° E and N. 60° W.

68.00 Coule bears from N. W. to N. 80° E.

67.60 Coule bears N.

71.00 Bend in coule 40 ft wide, 4 ft deep bears from N. 70° W to N. 80° E.

80.00 The cor. to secs. 9, 10, 15 and 16.

Sand, broken, soil, sandy and stony at rate.

Heavy scrub cedar timber on 26.00 chs.

N 0° 0' 2" W. bet. secs. 9 and 10

Va. 15° 02' E

Descend

3.20 Coule bears N. E. from W.

8.00 Ascend steep slope.

18.50 High point 300 ft above bottom bears W, descend.

37.00 Gulch 250 ft below last point bears E.

40.00 It is impracticable to set a stone in the

Subdivision of 9.20 A. R. 25 E. S. L. M.

ground, I therefore set a sandstone 20x20x4 ins in a mound of stone 1½ ft high, 3 ft base, for ¼ sec. cor., marked ¼ on W face. Pits impr.

44.00 Ridge bears W.

49.00 Wash in gulch 40 ft deep bears E; ascend.

66.70 Coulter bears S. E.; enter dense scrub cedar timber

69.30 Top of ledge 20 ft high

80.00 It is impracticable to set a stone in the ground, I therefore set a sandstone 20x6x6 ins, in a mound of stone 1½ ft high, 2 ft base, for cor. to secs. 3, 4, 9 and 10, marked with 5 notches on S, and 3 notches on E edge. Pits impracticable. No bearing trees available.

Sand, mountainous; soil stony, 4th rate.

Heavy scrub cedar timber on 13.30 chs

Mountainous on 8.00 chs.

S. 89°59' W on a random line bet. secs. 4 and 9

Va 14°58' E

40.00 Set a temporary ¼ sec. cor.

80.00 Intersect N and S line & falls N of cor. to secs. 4, 5, 8 and 9.

Hence I run S 89°59' E on a true line bet. secs. 4 and 9

Va 14°58' E

Through heavy scrub cedar timber

Coulter bears W.

Coulter bears W.

Coulter bears W.

Coulter bears W.

40.00 Set a sandstone 20x10x3 ins, 15 ins in the ground, for ¼ sec. cor., marked ¼ on W face; dug pits 18x18x12 ins and W of stone, 5½ ft dist., and raised a mound of earth 1½ ft high, 3½ ft base alongside. No bearing trees available.

80.00 The cor. to secs. 3, 4, 9 and 10.

Sand rolling; soil stony 3rd and 4th rate

Subdivision of T. 20 S. R. 25 E. A. d. W.

	Heavy scrub cedar timber on 80.00 chs.
	N $0^{\circ}02'W$ on a random line bet secos. 3 and 4 Va $15^{\circ}00'E$
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
81.81	Intersects N bdy of $\frac{1}{4}$ sec. 2 116 ft E of cor to secs. 3, 4, 9 and 10 Hence from, N $0^{\circ}02'W$ on a true line bet. secs. 3 and 4 Va $15^{\circ}00'E$
2.80	Through dense Artemesia under growth Foot of steep bank; leave in dry growth.
4.20	Top of bank 60 ft above bottom, bears E and W, ascend.
21.80	Foot of steep ascent
34.80	Top of steep ascent; enter heavy scrub- cedar timber
41.81	It is impracticable to set a stone in the ground, I therefore set a sandstone $1\frac{1}{4} \times 1\frac{1}{4} \times 4$ in, in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4} 400W$ face. Pits impracticable. No bearing trees available.
42.80	Coule bears N.W.
51.70	Coule bears N.W.
75.80	Top of mountain, descend to.
81.81	The cor. to secs. 3, 4, 9 and 10. Land, mountainous; soil, stony & th rocky. Heavy scrub cedar timber on 47.00 chs. Mountainous on 81.81 chs.

June 25th, 1894

Obs. on Polaris at 9:26 P.M. mean local
time June 25th 1894 in my camp. N $85^{\circ}W$
21 chs from cor to secs. 15, 16, 21 and 22.
I draw a table, 3 chs N of instrument
on my line for future reference.
Local art mean time of obs. June 24th 33^h 26^m
U. C. Polaris June 18th is 19^h 40.3^m
diff 9 days sub 35.3^m
U. C. Polaris June 24th 19^h 05' which sub-

10

Subdivision of T20 S. R. 25 E. S. S. W.

tracted from time of obs. equals.
 Hour angle of Polaris at obs. $14^{\text{h}} 21^{\text{m}}$,
 Subtract from $23^{\text{h}} 56^{\text{m}}$,
 Argument for Table II $9^{\text{h}} 35^{\text{m}}$,
 Azimuth of Polaris Table II $55\frac{1}{2}^{\circ}$ E.
 At 6 A.M. June 26th the mag. bearing
 of the line established last night is
 $N. 14^{\circ}, 12' W$
 Add Azimuth $55\frac{1}{2}^{\circ}$,
 The magnetic declis. $15^{\circ} 07\frac{1}{2}^{\circ}$ E.
 The mean decl. is, therefore, $15^{\circ} 04^{\circ}$ E

On a true line bet secs. 15 and 22

at $15^{\circ} 08' E$

- Ascend through heavy scrub cedar timber
- 5.00 Enter couleé bears 070° W from E
- 13.00 Head of same couleé bears W.
- 17.20 Couleé bears N.
- 27.60 Wash in gulch 20 ft deep bears N.
- 40.00 It is impracticable to set a stone in the ground, I therefore set a sandstone $20 \times 10 \times 6$ ins, in a mound of stone $1\frac{1}{2}$ ft high,
2 ft base, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face. Pits impracticable.
- No bearing trees available.
- 44.00 Couleé bears N.
- 49.00 Wash in gulch 20 ft deep, bears N.
- 56.20 Wash in gulch 20 ft deep bears N
- 65.00 Top of mountain
- 67.10 Top of ledge 70 ft high, bears N and S.
- 72.00 Top of cliff 400 ft high.
- Set up a back sight for future use at this point and set a point on opposite bank of Grand river on my line produced east.
- 76.00 Right bank of Grand river. It is impracticable to set a stone in the ground, I therefore set a sandstone $17 \times 14 \times 4$ ins in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base, for a meander cor. and witness cor to secs. 14, 15, 22 and 23, marked M.C.W.C. on N. E. face, with 3 notches on N and E edges, from which;

Subdivision of 920 S. R. 25 E. A. L. M.

	<p>A cottonwood tree 8 ins in diam. bears $N 13^{\circ} 15' E$ 132 lds dist. marked 920 R. 25 E M.C.W.C. B.T. No other trees in limit. Sand mountainous; soil stony, $\frac{1}{4}$ th rate. Heavy scrub cedar timber on 72.00 chs. Mountainous on 76.00 chs.</p>
	<p>As the cor to secs. 14, 15, 22 and 23 is in Grand river, I run from the witness cor. just above described</p> $N 20^{\circ} W$ 7.00 chs. = $N 6.5^{\circ} S$ and $W 2.39$ cha $N 61^{\circ} 51' E$ 7.25 chs. = $N \underline{342}^{\circ} " E \underline{6.39}$ cha $N 10.00 " " E 4.00$ chs.
	<p>This point is on the right bank of Grand river and on line bet secs. 14 and 15 at the dist. of</p>
10.00	<p>I set a post 4x4 ins. 4 ft long. 24 ins in the ground for meander cor and witness cor to secs. 14, 15, 22 and 23, marked 920 S. 0, 14 on N.E., R. 25 E. 0. 23 on S.E. M.C.W.C. 0. 22 on S.W. and 0. 15 on N.W. face, with 3 notches on S and 3 notches on E edge; from which,</p> <p>A cottonwood tree 11 ins in diam bears $N 37^{\circ} 45' E$ 104 lds dist. marked 920 S. R. 25 E 0. 14 M.C.W.C. B.T.</p>
	<p>A cottonwood tree 12 ins in diam. bears $087^{\circ} 40' W$ 68 lds dist marked 920 S R. 25 E 0. 22 M.C.W.C. B.T.</p>
	<p>No other trees in limit.</p>
	<p>Thence I run $N 0^{\circ} 02' W$ bet secs. 14 and 15 $0^{\circ} 10' E$.</p>
11.00	<p>A cottonwood tree 9 ins in diam, a live tree marked with 2 notches on N and S sides.</p>
24.90	<p>Foot of cliff; ascend.</p>
40.00	<p>Top of hill. It is impracticable to set a stone in the ground; I therefore set a sandstone 16x9x6 ins in a mound of stone $1\frac{1}{2}$ ft high 2 ft base for $\frac{1}{4}$ sec. cor marked $\frac{1}{4}$</p>

Subdivision of T. 20 S. R. 25 E. S. L. C. M.

on W face. Pits imp.
descend along E side of hill.
From $\frac{1}{4}$ sec. cor. C. H. Gallett's house bears
 $N 78^{\circ} 50' E$
43.50 Hence from foot of hill 7 chs - right of line
bears E
80.00 It is impracticable to set a stone in the
ground; I therefore set a sandstone
 $20 \times 8 \times 8$ ins. in a mound of stone $1\frac{1}{2}$ ft
high, 2 ft base, for cor to secs. 10, 11,
14 and 15, marked with 4 notches on N
and 2 notches on E edge. Pits imp.
Land mountainous and river bottom; soil
alluvial, 1st rate on river bottom and 2nd
4th rate on mountainous part.
A few cottonwood trees along Grand river.
Mountainous on 55.10 chs. To here

W on a random line bet secs. 10 and 15

$69 15^{\circ} 02' E$

40.00 Set a temporary $\frac{1}{4}$ sec. cor.
79.93 Intersect N and D line 15 chs N of cor
to secs. 9, 10, 15 and 16.
Hence I run $N 89^{\circ} 54' E$ on a tree line
bet. secs 10 and 15

$69 15^{\circ} 02' E$

9.90 Coule' bears from S to N.E.
14.40 Same coule' bears N.E.
17.56 Present track R. G. W. Ry bears N.E.
34.90 Salt Lake wagon road bears N.W.
37.50 Wash in gulch 25 ft deep bears N.E.
39.97 Set a sandstone $16 \times 9 \times 4$ ins., 10 ins in the
ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on
N face, dug pits $18 \times 18 \times 12$ ins. E and W of
stone, $5\frac{1}{2}$ ft dist, and raised a mound
of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside
Wash in gulch 30 ft deep bears $N 30^{\circ} W$
42.90 Coule' bears N
49.90 Wash in gulch 50 ft deep bears N.
64.90 Top of hill descend.
70.40 Top of ledge of rock

Subdivision of 92 sec. R 25 E S. L. M.

79.93	The cor. to secs. 10, 11, 14 and 15. Land hilly and broken; soil, sandy and stony 4 th rate. Scattering cedars along lines.
	N 0° 0' W. but secs. 10 and 11 Va N 15° 0' S' E
11.30	Top of bluff bears N 10° E
20.00	Top of hill, descend.
31.00	Foot of hill, enter dense artemesia undergrowth.
32.10	Salt Lake wagon road bears S.W.
34.70	Present track R. G. W. R. I. bears N. E. and S.W.
40.00	Set a sandstone 14x12x8 ins 9 ins in the ground, for 1/4 sec. cor. marked 1/4 on W face, dug pits 18x18x12 ins, 1/4 yard of stone, 5 1/2 ft dist., and raised a mound of earth. 1 1/2 ft high, 3 1/2 ft base alongside.
41.00	Coule 80 ft wide, 10 ft deep bears E.
46.00	Westwater creek 40 ft wide 20 ft deep bears S.E. (dry).
57.50	Westwater creek (dry) bears from W to S.W!
63.00	Foot of mountain bears E and W. Leave undergrowth.
71.65	Ridge 100 ft high bears W.E.
75.00	Top of rock; descend 75 ft to cor. Note: Taking a back sight on my line, I find the variation has increased 10' by local attraction.
80.00	It is impracticable to set a stone in the ground; I therefore set a conglomerate stone 20x10x3 ins. in a mound of stone 1 1/2 ft high 3 1/2 ft base, for cor. to secs. 2, 3, 10 and 11, marked with 5 notches on S. and 2 notches on E edge. Pits imp.
	Land mountainous and level; soil, stony, 4 th rate and sandy loam 2 nd rate.
	No timber
	Dense artemesia undergrowth on 32.00 chs Mountainous on 48.00 chs.
	W. F. H.

Subdivision of T. 20 N R. 25 E. A. S. M.

88° 54' W on a random line bet. secs. 3 and 10
Va 15° 12' E

40.00 Set a temporary $\frac{1}{4}$ sec. cor.
80.14 Intersect N. and D. line 25 1/2 ft S of cor. to
secs. 3, 4, 9 and 10.

Thence 88° 55' E on a true line bet.
secs. 3 and 10

Va 15° 02' E

descend

6.00 Ledge of rock
12.50 Head of gulch bears N.
22.30 Ledge of rock 20 ft high.
26.40 Top of ledge 70 ft high & descend.
37.50 Foot of mountain; enter dense artemesia
undergrowth.
40.07 Set a sandstone 14x14x4 ins 10 ins in the
ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ in N
face; dug pits 18x18x12 ins E and W of stone,
5 $\frac{1}{2}$ ft dist. and raised a mound of earth
1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base alongside.
48.00 Westwater creek (dry) 60 ft wide 5 ft deep.
bears S.E.
54.70 Foot of mountain; ascend, have under-
growth.
80.14 The cor. to secs. 2, 3, 10 and 11
Land mountainous and level; soil
stony, 4th rate and sandy loam 2nd rate.
No timber.
Dense artemesia undergrowth on 17.20 chs.
Mountainous on 62.94 chs.

N 0° 01' W on a random line bet. secs. 2 and 3
Va 15° 14' E

40.00 Set a temporary $\frac{1}{4}$ sec. cor.
81.84 Intersect N. bdy. of T. 12 1/2 ft S of cor.
to secs. 2, 3, 34 and 35.

Setting a back sight on my line, I find
the variation has decreased 10'.

Thence same, N 0° 06' E on a true line
bet. secs. 2 and 3.

Va 15° 04' E

Subdivision of 9.20 A. R. 25 E. S. d. N.W.

	Through heavy scrub cedar timber; ascend Coulter bears N.W.
1.00	
14.50	Top of mountain
19.30	Coulter bears W.
28.10	Wash in gulch 50 ft deep bears W!
32.10	Coulter bears W.
41.00	Leave cedar timber.
41.84	It is impracticable to set a stone in the ground; I therefore set a sandstone 17x7x6 ins. in a mound of stone 1½ ft high, 2 ft base, for ¼ sec. cor., marked ¼ on W face. Pits imp. No bearing trees available.
42.30	Top of mountain, descend steep slope
67.80	Coulter bears S.W.
81.84	From the cor. to secs. 2, 3, 10 and 11 Sand mountainous; soil stony, & thate. Heavy scrub cedar timber on 41 chs Mountainous on 81.84 chs.

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	From the cor. to secs 10, 11, 14 and 15 I run. E on a true line bet secs 11 and 14 Va 15°02' E
	C. H. Ballitt's house bears 1.45°35' E. descend.
1.00	Foot of hill, over level ground through dense artemesia undergrowth.
2.00	Fence bears N 10° W.
38.50	Westwater creek N. (dry) 75 ft wide 20 ft deep bears 0 30° W.
39.00	G. D. Darrows house bears N 45°50' E
40.00	Set a post 3x3 ins 3 ft long, with marshaled stone, 12 ins in the ground for ¼ sec cor. marked ¼ on W face, dug pits 18x18x12 ins E and W of post 5½ ft dist. and raised a mound of earth 1½ ft high 3½ ft base around post.
49.86	Fence bears N and S.; enter cultivated land.
55.60	Fence bears N and S leave cultivated land

Subdivision of T. 20 S. R. 25 E. I. L. N.W.

56.50	Enter dense Willow undergrowth.
75.80	Rig ht bank of Grand river, set a post 4x4 in 4 ft long, 24 ins in the ground, for meander cor to fractional secs. 11 and 14, marked M.C. on E face, T 20 S. R 11 on N. R 25 E P 14 on S, from which A cottonwood tree 7 ins in diam bears N 50° E 6 lms dist, marked T 20 S R 25 E P 12 M.C. B.T.
	A cottonwood tree 8 ins. in diam bears N 63° E 16 lms dist, marked T 20 S R 25 E P 13 M.C. B.T.
	Land river bottom; soil alluvial, at rate. Dense cottonwood timber along river. Dense artemesia or willow undergrowth on 68.16 chs.
	From the cor to secs 2, 3, 10 and 11 I run, E on a tree line bet. secs 2 and 11 Va 15° 15' E
	Ascend steep slope.
27.50	Point of hill 300 ft above sec. cor. bears W. E., descend over steep stony ground.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 22x8x5 ins, in a mound of stone 1 1/2 ft high, 2 ft base, for cor. to secs 2, 3, 10 and 11 marked 1/4 on N face. Pits imp.
59.00	Wash in gulch 100 ft deep bears S. E.
67.10	Point of ridge 150 ft high bears N.
72.00	Wash in gulch bears S. W.
80.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 26x10x5 ins, in a mound of stone 1 1/2 ft high, 2 ft base, for cor. to secs 1, 2, 11 and 12 marked with 5 notches on S and 1 notch on E edge. Pits imp.
	Land mountainous; soil, stony, at rate. No timber.
	Mountainous on 80.00 chs.

Subdivision of T 20 S R 25 E. D. C. M.

	0°0' E on a true line bet secs. 11 and 12 Va 15°15'E
	descend
2.70	Foot of hill; enter dense artemesia undergrowth
3.83	Fence bears N 46° E
6.00	Present track R. G. W. Ry. bears N 46° E
8.05	Fence bears N 46° E
9.00	Dalt Lake wagon road bears N.E. and S.W.
10.35	Fence bears N 46° E; enter heavy cottonwood underbrush; leave artemesia undergrowth.
12.06	Fence bears S. E.; enter cultivated land.
13.00	Leave cultivated land enter, heavy cottonwood timber and undergrowth.
14.00	Set a sandstone 26x16x6 ins, 19 ins in the ground for $\frac{1}{4}$ sec. cor. and meander cor to fractional secs. 11 and 12, marked $\frac{1}{4}$ on W face and M.C. on N face, from which a cottonwood tree 36 ins in diam. bears N 43° W 10 lks dist, marked $\frac{1}{4}$ 0 B.G. and T 20 S R 25 E D 11 M.C. B.G. No tree on opposite side of line.
	By taking a backsight I find the mag. va. to be 15°20'E at this point.
	Westwater station bears N 15°25' W
	E Price's house bears N 02°30' E.
	G.H. Darrows cabin bears N 54° W
	G. Jacobs cabin bears N 34° E
	Land mountainous and river bottom soil on mountainous part, stony 4 th rate, on river bottom alluvial 1 st rate.
	Dense undergrowth on 23.36 chs.
	Mountainous on 2.70 chs.

From the cor. to secs 1, 2, 11 and 12 I run N 0°0' W on a new close line bet secs. 1 and 2
Va 15°15'E

14.00	Set a temporary $\frac{1}{4}$ sec. cor.
15.14	Intersect N bdy of 7 th . 4 lks E of cor to secs. 1, 2, 35 and 36
	There I run N 0°0'3"E on a true line bet.

Subdivision of T. 20 S. R. 25 E. D. L. M.

secs 1 and 2

Va 15° 05' E

Through scrub cedar timber.

7.30 Top of bluff 40 ft high, descend.

10.30 Coulees bears from N.W. to N.E.

15.10 Coulees bears S.E.

21.30 Rocky point bears W.

29.80 Coulees bears N.E.

42.14 It is impracticable to set a stone in the ground; I therefore set a sandstone 18x14x6 ins, in a mound of stone, 1½ ft high & 2 ft base, for ¼ sec. cor., marked ¼ on W face. Pits imp.

42.30 Coulees bears N 30° E

45.30 Foot of steep ascent.

49.30 Top of ledge 60 ft high bears N.E.

60.30 Top of mountain 250 ft high, descend to

82.14 The cor to secs. 1, 2, 11 and 12.

Land mountainous; soil, stones, & th. rate. Cedar timber on 7.30 chs.

Mountainous on 82.14 chs.

June 27th 1894

From the cor. to secs 1, 6, 7 and 12 on the E bdy. of the township, I run,

W on a true line bet. fractional secs 1 and 12
in V a 15° 02' E

Through heavy cottonwood timber and undergrowth.

4.37 Fence bears N 10° W

Left bank of Grand river, set a post 4x4 ins, 4 ft long, 24 ins in the ground, for meander cor to fractional secs 1 and 12 marked W.C. on W, T 20 S. R 1 on N, R 25 E on E, P 12 on P face, from which a cottonwood tree 30 ins. in diam. bears N 12° W 7 lfts dist, marked T 20 S. R 25 E P 1 W.C. B.G.

A cottonwood tree 10 ins in diam., bears N 10° W 18 lfts dist, marked T 20 S. R 25 E P 12 W.C. B.G.

Land river bottom; soil alluvial, 1 ft thick.

Subdivision of 920 D. R. 25 E. Oct. 1900.

	Heavy cottonwood timber and undergrowth on 4.60 chs.
	From the cor. to secs. 1, 2, 11 and 12 I run E on a true line bet. secs. 1 and 12 at $15^{\circ} 15' E$ descend over steep slope.
2.20	Foot of hill
4.17	True bears $N 46^{\circ} E$
6.34	Precise line N.R.G. W Ry bears $N 46^{\circ} E$
8.51	True bears $N 46^{\circ} E$
9.70	Salt Lake wagon road bears N. E. and S. W.
9.98	True bears N. E.; enter dense artemesia undergrowth.
14.11	True bears $\theta 20^{\circ} E$
14.50	Plough 20 ft wide, 3 ft deep bears $N 80^{\circ} W$.
36.20	Plough 60 ft wide 10 ft deep bears $\theta 20^{\circ} E$
37.50	Enter heavy cottonwood timber
40.00	Set a sandstone 18x11x4 ins. 12 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face, from which A cottonwood tree 18 ins. in diam. bears $N 20^{\circ} 15' E$ 91 lfts dist. marked $\frac{1}{4} D$ B.G.
	A cottonwood tree 10 ins. in diam. bears $\theta 36^{\circ} 30' W$ 61 lfts dist. marked $\frac{1}{4} B. P. G.$
47.10	Rig at bank of Grand river, set a post 4x4 ins. 4 ft long, 24 ins in the ground for meander cor. to fractional secs. 1 and 12, marked D.C. on E face, 920 S D12 on S, R 25 E on W, and D1 on N face from which A cottonwood tree 26 ins in diam bears $W 59^{\circ} 30' W$ 115 lfts dist. marked 920 S R 25 E D1 M.C. B.G.
	No other tree in limit.
	From this cor. the meander cor to fractional secs. 1 and 12 on left bank of Grand river bears $\theta 89^{\circ} 55' E$
	From this cor I run N $89^{\circ} 55' W$ 3.00 chs. and measure thence a base line

Subdivision of 9.20 S. R. 25 E. D. L. 100.

N $0^{\circ}05'E$ 5.00 chs. From N end of this base the meander post on left bank of river bears $N 80^{\circ}05'E$; the distance = $5 \times \cot 9^{\circ}05'$
 $= 5 \times 6.266 = 31.33$ chs.

The distance between the meander cor. is therefore $31.33 - 5 = 26.33$ chs.

Sand river bottom; soil alluvial, 1st rate, except 2.20 ch. mountainous; soil, stony 4th rate.

Dense undergrowth or heavy cottonwood timber on 37.12 chs.

Mountainous on 2.20 chs.

June 28th 1894

From the cor to secs 13, 18, 19 and 24 on the E bdy of the Tp. I run.

W on a true line bet secs 13 and 24

On $15^{\circ}17'E$

Through dense artemesia undergrowth.

9.20 Wash in gulch 20 ft deep bears N.W.

12.70 Ridge 5 ft high, bears N.W.

17.20 Wash in gulch 50 ft deep bears N.W.

21.00 Top of hill

30.00 Top of hill, descend

40.00 Set a sandstone 23 x 9x6 ins 17 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits 18 x 18 x 12 ins E and W of stone, 5 $\frac{1}{2}$ ft dist, and raised a mound of earth $1\frac{1}{2}$ ft high & $3\frac{1}{2}$ ft base alongside. Couleis 20 ft wide & ft deep bears from S.E. to N.

46.50 Couleis 5 ft deep bears $N 20^{\circ} W$.

55.00 Enter scrub cedar timber

67.50 Leave cedar timber.

74.70 Couleis 10 ft wide, 3 ft deep bears W.

76.80 Ridge 30 ft high h, bears S.W.; descend to

Set a sandstone 16x9x8 ins, 10 ins in the ground for cor to secs. 13, 14, 23 and 24 marked with 3 notches on S and 1 notch on E edge; dug pits 18 x 18 x 12 ins in each sec. 5 $\frac{1}{2}$ ft dist, and raised a mound

Subdivision of T. 20 S. R. 25 E. A.L. N.W.

of earth 2 ft high, $4\frac{1}{2}$ ft. base alongside
Land mountainous, soil stony and sandy
3rd and 4th rate.

Timber scrub cedar

dense artemesia undergrowth on 80.00
chs.

W on a tree line bet. secs 14 and 23
to $15^{\circ}16' E$

Through dense artemesia undergrowth.
Bank 20 ft high, descent to river bottom.
Enter heavy cottonwood timber; leave
artemesia undergrowth.

Enter old river channel bears S.W.

Leave old channel

Set a sandstone $14 \times 10 \times 4$ ins 10 ins in
the ground, for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on N face, from which
A cottonwood tree 20 ins in diam.
bears $N 44^{\circ} W$ 11 lms dist., marked $\frac{1}{4} S$
B.G.

A cottonwood tree 10 ins in diam. bears
 $N 4^{\circ} E$ 13 lms dist., marked $\frac{1}{4} N$ B.G.

- 43.94 Left bank of Grand river, set a post
 4×4 ins. 4 ft long 24 ins in the ground
for meander cor to fractional secs.
14 and 23, marked M.C. on W face,
T 20 S D 14 on N. R 25 E on E and D 23
on D face, from which a cottonwood
tree 55 ins in diam bears $N 38^{\circ} E$
44 lms dist., marked T 20 S R 25 E D 14
M.C. B.G.

A cottonwood tree 10 ins in diam, bears
 $N 48^{\circ} 30' E$ 92 lms dist., marked T 20 S
R 25 E D 23 M.C. B.G.

The meander cor on on right bank of
river bears W.

I now measure a base line 10.000 chs.

From the N end of this base, the meander
cor on right bank of river bears $N 75^{\circ} W$;
the distance across is $10 \times \tan 75^{\circ} = 40.11$ chs.

Sub division of 9 20th R 25th D. M.

Land rolling and river bottom; soil sandy and alluvial 1st and 2nd rate.

Dense artemesia undergrowth or heavy cottonwood timber on 40.94 chs.

From the cor to secs. 13, 14, 23 and 24

I am, N $0^{\circ}0' E$ bet secs. 23 and 24

Va $15^{\circ}16' E$

Through dense artemesia undergrowth as ascending.

20.70 Coules' bears N.E.

29.00 Coules' bears N.E.

Enter heavy scrub cedar timber; leave undergrowth. Begin steep ascent.

40.00 Coules' bears N.E. Mashed cross (+) at each corner point, and $\frac{1}{4}$ on a boulder 6x4x4 ft above ground for $\frac{1}{4}$ sec. cor., and raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. No bearing trees available.

It is impossible to run the line further on account of impassable cliffs which cross the line a few chains beyond the $\frac{1}{4}$ sec cor.

Land mountainous; soil sandy and stony. 3rd and 4th rate.

Dense artemesia undergrowth or

heavy scrub cedar timber on 40.00 chs.

Mountainous on 40.00 chs.

From the cor to secs 13, 14, 23 and 24

I am N $0^{\circ}0' W$ bet secs. 13 and 14

Va $15^{\circ}16' E$

Through dense artemesia undergrowth

7.50 Coules' 20 ft wide, 10 ft deep bears N.W.

33.00 Vacant log cabin. W 3.00 chs.

Left bank of Grand river, set a post 4x4 ins, 4 ft long, with mashed stone, 12 ins in the ground for meander cor. to fractional secs 13 and 14, mashed M.C. on N face, 9 20th S 13 on E, R 25th Cor. 1st

Subdivision of T. 20 S. R. 25 E. D. L. M.

- 0 and D₁₄ on W face; dug a pit 3x3x1 ft 8 lms N of post, and raised a mound of earth 2 ft high 4½ ft base around post.
- 35.85 Set up a backsight and then put a flag on line on opposite sides of river. From this latter point I measure a base D_{89°59'W} 5 chs. From W end of this base backsight at 35.85 chs bears D_{18°26'E}. Distance = 5 x cot. 18°25' = 5 x 3.0003 = 15.01 chs. My point on line is therefore at 35.85 + 15.01 = 50.86 chs. I now measure D_{0°01'E} 3.86 chs. and at
- 47.00 Right bank of Grand river, set a post 4x4 ins. 4 ft long, with marked stone 12 ins in the ground, for meander cor to fractional secs 13 and 14, marked M.C. on N face, T 20 S on N, R 25 E S 13 on E and D₁₄ on W face; dug a pit 3x3x1 ft 8 lms N of post and raised a mound of earth 2 ft high 4½ ft base around post.
- 51.00 Enter heavy cottonwood timber
- 72.00 Right bank of Grand river, set a post 4x4 ins 6 ft long, with marked stone 12 ins in the ground, for meander cor to fractional secs 13 and 14, marked M.C. on N face, T 20 S. S 13 on E, R 25 E on S and D₁₄ on W face; dug a pit 3x3x1 ft 8 lms S of post and raised a mound of earth 2 ft high, 4½ ft base around post.
- Land nearly level; soil alluvial and sandy 2nd and 3rd rate.
- Dense artemesia undergrowth or heavy cottonwood timber on 56.70 chs.

From the cor to secs 7, 12, 13 and 18 on the E bdy of T 20 S I run W on a true line bet. secs 12 and 13

at $15^{\circ}33'E$

Subdivision of T. 20 S. R. 25 E. S. L. M.

	Through dense artemesia undergrowth.
14.00	Coule bears S.
15.00	Foot of vertical sandstone cliff 100 ft high bears S.W.
23.50	From top of cliff ascend steps slope to top of ridge bears N 60° E. descend. The mag. va has here increased to 15° 43' E., determined by taking a back sight on my line.
31.90	Top of cliff 100 ft high bears N.E., descend.
40.00	Set a sandstone 16x12x 3 ins. 10 ins in the ground for 1/4 sec. cor., marked 1/4 on N face; dug pits 18x18x12 ins E and W of stone, 5 1/2 ft dist, and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside.
45.10	Point of ledge of rock bears S.
53.00	River bottom, enter dense willow undergrowth and cottonwood timber.
59.00	Enter G. Williams field; leave undergrowth.
62.20	Leave field; enter dense willow undergrowth.
63.22	Fence bears N 30° W and S.E.
64.25	Left bank of Grand river, set a post 4x4 ins, 4 ft long, with marked stone 12 ins in the ground, for meander cor to fractional secs. 12 and 13, marked M.C. on W face, T 20 S. R 12 on N, R 25 E on E and D 13 on S face; dug pit 3x3x1 ft 8 ins E of post and raised a mound of earth 2 ft high, 4 1/2 ft base around post.
6105 3.20	The meander cor to fractional secs. 11 and 14 bears S 89° 50' W.
	I run S 89° 50' W on sand bar and measure a base N 0° 10' W 5.00 chs.
	From the N end of this base the meander cor across river bears S 73° 21' W.
	The distance across river is therefore

Manders 920 S. R. 25 E. J. L. M.

$3.00 \text{ chs} + 5 \times \cot 16^{\circ} 29' = 3.00 + 5 \times 3.379 = 19.89 \text{ chs}$
 Land mountainous and river bottom.
 Soil on mountainous part, sandy and
 stony 4th rate, on river bottom, alluvial
 1st rate.

Dense artemesia or willow undergrowth
 over 61.05 chs.

Mountainous over 53.00 chs.

June 30th 1894

Manders of right bank of Grand
 river up stream.

I begin at the meander cor to fractions
 at secs. 15 and 22.

Thence I run with meanders in sec 15
 Va $15^{\circ} 16' E$

Along high bluff bank, through dense
 underbrush and cottonwood timber.
 N $20^{\circ} W$ 7.00 chs. At 4.00 chs bank 10 ft high
 At 6.00 " mouth of creek 20 ft
 wide. 6 ft deep
 At 7.00 " lower end of gravel bar.

N $61^{\circ} 51' E$ 7.25 chs. To meander cor to fractional
 secs 14 and 15

Land level. and mountainous.

Soil, alluvial 1st rate and stony 4th rate.

Dense undergrowth and cottonwood timber
 over 14.25 chs.

Thence in sec 14

Va $15^{\circ} 16' E$

Through heavy cottonwood timber

N $26^{\circ} E$ 7.50 chs. At 2.00 chs leave timber

N $86^{\circ} E$ 13.70 " At 12.00 " enter heavy cotton-
 wood timber

N $67\frac{1}{2}^{\circ} E$ 11.30 " At 8.00 chs upper end of bar.

N $53^{\circ} E$ 9.20 " At 6.00 " mouth of Westwater
 creek 150 ft wide 12 ft
 deep (dry)

N $68\frac{1}{2}^{\circ} E$ 10.00 chs.

Manders of 920 S. R. 25 E. S. L. M.

Manders of right bank of Grand river up stream

N 53° E 5.70 chs. At end of course leave cottonwood timber; fence bears N 25° W
Thence over bare sandy ground

N 69° E 33.79 chs. To meander cor. to fractional secs. 13 and 14
at 2.00 chs lower end of sand bar.

Land level bottom; soil alluvial and sandy 1st and 4th rate.

Heavy cottonwood timber on 39.90 chs.

Thence in Dec. 13

Va 15° 20' E

N 35° E 7.00 chs. At 3.00 chs upper end of bar
at 6.60 " enter heavy cottonwood timber, bank 10 ft high.

N 9 1/2 W 13.00 chs.

N 17 1/4 W 6.70 " to meander cor. to fractional aecs. 13 and 14.

Land level bottom, soil alluvial 2nd rate.

Heavy cottonwood timber on 20.10 chs.

Thence in Dec. 14

Va 15° 30' E

Through heavy cottonwood timber and dense willow underbrush, bank 12 ft high.

N 27 1/2 W 9.04 chs. To meander cor. to fractional aecs. 11 and 14

Land level; soil, alluvial, 1st rate.

Heavy cottonwood timber and dense willow undergrowth on 9.64 chs.

Thence in sec. 11

Va 15° 30' E

Through dense willow undergrowth.

25
Meanders 9.20 S. R. 25 E. S. d. M.

Meanders of right bank of Grand river up stream.

N $13^{\circ} W$ 2.00 chs.

N $9^{\circ} E$ 14.00 " At 10 chs fence bears N $80^{\circ} W$

" 10.80 fence bears N $79^{\circ} W$

G. D. Narrows house bears N $79^{\circ} W$

N $5^{\circ} 00' W$ 5.00 chs.

N $18\frac{1}{4}^{\circ} W$ 2.00 "

N $4\frac{1}{2}^{\circ} W$ 3.00 "

N $10^{\circ} E$ 12.00 " At 8.32 chs fence bears N. W.

At 10.00 " leave meander north; enter cultivated land

N $35^{\circ} E$ 3.06 chs. to $\frac{1}{4}$ sec cor bet secs 11 and 12 which is also meander cor to fractional secs 11 and 12.

Land level; soil alluvial, 1st rate.

Dense willow underbrush on 36.00 chs.

Fence in Sec. 12

On N $15^{\circ} 15' E$

Enter heavy cottonwood timber

N $38\frac{1}{4}^{\circ} E$ 8.00 chs.

N $53\frac{1}{4}^{\circ} E$ 6.50 " At 1.56 chs fence bears N. W.

At 2.85 " R. G. W. Ry pump house 100 ch. left

At 4.22 chs. fence bears N. W.

At 6.50 chs. E Price's house bears

N $21\frac{1}{2}^{\circ} W$

N $64\frac{1}{2}^{\circ} E$ 10.00 chs.

N $74^{\circ} E$ 7.50 chs. At 2.33 chs. fence bears N $28^{\circ} W$

At 3.00 chs. E Price's house left 1 ch.

N $67\frac{3}{4}^{\circ} E$ 16.50 chs. At 4.00 chs. slough 30 ft wide

6 ft deep bears N. E.

End of gravel bar.

N $45\frac{1}{2}^{\circ} E$ 5.00 chs.

N $12\frac{1}{2}^{\circ} E$ 4.00 chs.

N $36\frac{3}{4}^{\circ} E$ 5.50 chs. At 4.30 leave cottonwood timber and enter dense underbrush

N $10^{\circ} W$ 1.30 chs.

Meadows 9.20 S. R. 25 E. S. L. M.

Meadows of right bank of Grand river
up stream

N 26 1/2° W 2.00 chs.

N 24 1/4 W 2.70 chs to meander cor to fractional
secs. 1 and 12.

Land level, soil alluvial, 1st rate.

Heavy cottonwood timber or dense
undergrowth on 61.80 chs.

July 1st 1894

Meadows of right bank of Grand river
down stream.

I commence at the meander cor. on right
bank of Grand river on E bdy of 7 p.
being the meander cor to fractional secs.
1 and 6.

Thence I run with meanders in sec 1

N 15° 04' E

Through dense undergrowth, over
level bottom 6 ft bank.

There is a sand bar about 6.00 chs wide
with some brush growing on it, opposite
this point, with a channel 2.00 chs wide
between it and right bank of river.

D 37 3/4 W 4.20 chs along R. G. W. Ry fence.

D 52 1/2 W 7.00 "

D 38° W 24.00 " At 17.00 chs. lower end of bar

At 24.00 chs. leave undergrowth
bank 12 ft high

D 21 3/4 W 12.70 chs At 6.80 chs. fence bears N.W.

At 7.00 " S. D. Grant's house 3.00 chs right.

At 8.00 chs. enter plowed land.

At 11.08 fence bears N.W.

D 40° W 7.00 chs

D 19 1/2 W 15.00 chs. At 12.00 chs leave plowed ground

At 15.00 " enter dense under
growth.

D 5 1/2 E 14.00 At 3.58 chs fence bears N.W.

At 8.00 chs. Mouth of Bitter Creek
60 ft wide, 10 ft deep (dry)

Meanders 9.20 S. R. 25 E. S. S. M.

Meanders of right bank of Grand river down stream.

At 9.5¹/₂ chs. fence bears N 70° W

At 10.00 enter heavy cottonwood timber

At 12.00 chs. Danow Bros. pump house 3.00 chs right.

At 14.00 chs. leave cottonwood timber enter dense undergrowth

N 18° E 9.06 chs to meander cor to fractional secs 1 and 12

Land level, soil alluvial 1st rate.

Dense undergrowth or heavy cottonwood timber on 49.20 chs.

July 2nd 1894

Meanders of left bank of Grand river up stream.

I begin at the meander cor to fractional secs. 14 and 23 on left bank of Grand river.

Thence I run with meanders in sec 14.

N 15° 16' E

Through heavy cottonwood timber, bank 15 ft high.

N 21¹/₂° E 1300 chs. At 12.00 chs lower end of sand bar.

N 42³/₄ E 15.00 chs.

N 52° E 7.60 chs. At 600 chs. upper end of bar

N 80³/₄ E 10.60 chs.

N 66° E 4.00 chs

N 61° E 4.70 chs. At 4.40 chs bank 50 ft high, leave cottonwood timber, enter dense actinaria undergrowth.

N 66¹/₂° E 5.24 chs. To the meander cor to fractional secs. 13 and 14.

Land level; soil alluvial and sandy 1st and 2nd rate.

Heavy cottonwood timber or dense actinaria undergrowth on 60.14 chs.

Meanders T 20 S R 25 E A.S. M.

Meanders of left bank of Grand river up stream.

Thence in sec 10

10 15° 20' E

Through dense artemesia undergrowth.

N 69 1/2 E 7.60 chs. bank 5 off high

N 63 E 9.60 chs. at 1.40 chs. have bluff bank;

bank 3 ft high; leave undergrowth.

N 73 1/2 E 31.30 chs. at 0.50 chs. mouth of couleⁱ

100 ft wide 40 ft deep.

At 15.00 lower end of bar.

N 34 1/2 W 7.67 chs. to the meander cor to fractional
secs. 12 and 13

Land hilly and level; soil sandy 2nd rate.

Dense artemesia undergrowth on
9.00 chs.

Thence in sec 12

10 15° 20' E

Enter dense willow undergrowth, bank 4 ft
high.

N 21° W 1.36 chs. upper end of bar

N 10° E 2.00 chs.

N 12 1/2 W 4.00 chs.

N 39 1/2 W 4.30 chs

N 63° W 3.00 chs. At 2.75 chs fence bears N.

at 3.00 chs upper end of bar.

N 19° W 7.60 chs. At 6.00 chs to Williams cabin

4.50 chs right.

N 12 1/2 W 4.80 chs. At 2.76 chs fence bears E

N 9° W 2.70 ..

N 7° E 2.70 ..

N 12 1/2 E 6.70 ..

N 35° E 8.10 ..

N 69° E 12.50 ..

N 84° E 4.60 ..

N 72° E 3.00 ..

N 57 1/2 E 3.70 .. At end of course fence bears S.W.

N 41° E 4.50 ..

N 74° E 3.50 ..

Meanders T20 S R25 E. D.S.W.

Meanders of left bank of Grand river
up stream.

N $87\frac{1}{2}$ $^{\circ}$ E 5.30 chs.

N 85 $^{\circ}$ E 4.85 "

N 79 $^{\circ}$ E 5.70 "

N 70 $^{\circ}$ E 6.50 " at 5.00 chs bank 10 ft high.

N $61\frac{3}{4}$ $^{\circ}$ E 4.00 "

N 44 $^{\circ}$ E 8.00 " at 6.00 chs opposite lower end
of sand bar.

N 39 $^{\circ}$ E 3.20 "

N 32 $^{\circ}$ E 1.80 "

N $40\frac{1}{2}$ $^{\circ}$ E 3.50 "

N 22 $^{\circ}$ E 6.00 " At 0.84 chs fence bears N 70 $^{\circ}$ E
At 2.00 " Enter heavy cottonwood
timber and underbrush
Leave willow underbrush.

N 75 $^{\circ}$ chs. Leave underbrush.

N $11\frac{3}{4}$ $^{\circ}$ W 14.90 chs. To meander cor to fractional
secs 1 and 12. This last course is along fence
to 12.90 chs., fence bears E.

Land level; soil alluvial and sandy
1" and 3" water.

Dense undergrowth on heavy cotton-
wood timber on 135.31 chs.

Fence in sec. 1

N 4 $^{\circ}$ 15 $^{\circ}$ E

Enter heavy cottonwood timber

N 11 $^{\circ}$ W 9.00 chs. along fence.

N 16 $^{\circ}$ W 9.60 "

N $8\frac{1}{2}$ $^{\circ}$ E 12.00 " at 11.10 chs. fence bears E.

N 13 $^{\circ}$ W 11.50 "

N 4.02 "

N 48 $^{\circ}$ E 2.40 "

N 10.00 " along fence;

At 9.50 chs upper end of bar

at end of course leave fence.

N 51 $^{\circ}$ E 4.40 " At 4.00 chs enter dense

willow underbrush

N $38\frac{1}{2}$ $^{\circ}$ E 5.64 " To the meander cor to fractional

Meanders of left bank of river upstream.

secs. 1 and 6.

Land level; soil alluvial, 1st rate.

Heavy cottonwood timber or dense willow undergrowth on 60.56 chs.

July 3rd 1894

General description

This township consists principally of rolling plateau land with some parts mountainous. The soil is mostly sandy underlaid with soft sandstone. The bottom land along Grand river has a rich alluvial soil and can all be irrigated from the river. The cottonwood timber along the river bottom is of fine growth. The cedar timber on the hills is of a very inferior order and useless excepting for fuel. The hilly portion of the township affords abundant pasture for sheep or cattle in winter; it is of little value for summer grazing on account of the absence of water excepting that in the river. There are coal outcrops in secs 3, 4 and 9.

There are a considerable quantity of agates and petrified and agatized logs in secs 18 and 19, and generally on the hills bordering the present track of the R. G. W. Ry. on the N. and W.

The mean declination of the plat the average of four observations is 15° 00' E. There is considerable variation in the magnetic declination in the eastern part of the township owing to causes

I could not ascertain
C. H. Ballott lives in sec. 11. He has a
log house, 1 mile of fence, four acres of
land under cultivation and 10 acres
plowed. His improvements are valued
at \$200⁰⁰.

G. D. Grant lives in sec. 1. His improve-
ments consist of a log house 1½ miles
of fence, 30 acres of land plowed and
an irrigating ditch which is partly
constructed. The value of his improve-
ments is \$300⁰⁰.

W. E. Davis has moved away. The land once
occupied by him in secs 11 and 14 is now
held by G. D. Darro and Geo. Darro.
They have about \$1500⁰⁰ worth of improve-
ments, consisting of buildings, 3
miles of fence, a steam pumping
plant for irrigation and a ditch.
They have about 30 acres under cul-
tivation.

Albert Jacobson has removed from
this vicinity.

John Brandon and Tom Brandon the
other applicants for this survey live
in T 20 R 26 E.

E. Price and G. Jacobs live in sec 12.
The former has a cabin, stable, some
fencing and 10 acres under cultiva-
tion. His improvements are worth
\$200⁰⁰. G. Jacobs has no improvements
excepting a cabin.

Frank E. Baxter
U. S. Dep. Surveyor.

List of Names.

A list of the names of the individuals employed by , U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the

..... Meridian, in , showing the respective capacities in which they acted :

Final Oath of Assistants:

We hereby certify that we assisted , U. S. Deputy Surveyor, in surveying all those parts or portions of the

..... Meridian, , as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for

scribed and sworn to before me this }
day of , 18 }



Final Oath of U. S. Deputy Surveyor.

I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, the surveying manual, and the laws of the United States, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

U. S. Deputy Surveyor.

Subscribed and sworn to before me this _____
day of _____, 18_____. }



Approval.

Office of the U. S. Surveyor General,
Salt Lake City, Utah

June 6, 1895.

The foregoing field notes of the survey of *The Subdivisions of T20 S
R25 E of the Salt Lake Base & Meridian in the
Territory of Utah*.

executed by
Frank E. Baxter
under his Contract No. 196, dated January 18, 1894, having been critical
examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe,
hereby approved.

George W. Gould
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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J.S.B.

FIELD NOTES

OF THE SURVEY OF

The Exterior Lines of Township
20 South Range 26 East

Of the Salt Lake Meridian,

Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

Under his Contract No. 196, dated January 18th, 1894.

Survey commenced July 4th, 1894.

Survey completed July 4th, 1894.

(F.O.-2,000.) G-151

1.64-11
15,261

1.64-11

1.64-11

1

Names and titles of Assistants.

Samuel Morris Chairman
Wallace Watson Chairman
Edward Redmond Axeman
Lowell Wells Flagman

Volume

#

R0236

INDEX DIAGRAM.

Township 20S, Range 26E

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Meanders Page.....

Preliminary Oaths of Assistants.

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the.....

....., *Chainman.*

....., *Chainman.*

....., *Chainman.*

....., *Chainman.*

Subscribed and sworn to before me this }
day of , 18 . }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this , , *Axeman.*
day of , 18 . } , *Axeman.*

North Boundary T.20 S. R.26 E. S.D.C.W.

The survey of this township was commenced July 4th 1894. The answerable portion of the W body was now in surveying T.20 S. R.25 E. I cannot run the S. body of this sp as the land is inaccessible; I therefore begin at the cor to Tps 19 and 20 S. R's 25 and 26 E in Lat. $39^{\circ}07'N$. Lon. $109^{\circ}06'W$. I set my instrument over this cor and make the following obs on the sun's altitude for the meridians.

Time July 4th 700 A.M.

Alt.	hor angle right.
$30^{\circ}36'$	$84^{\circ}08'$
$30^{\circ}06'$	$84^{\circ}15'$
$30^{\circ}55'$	$84^{\circ}22'$
$31^{\circ}03'$	<u>$84^{\circ}29'$</u>
Avg $30^{\circ}20'$	Avg $84^{\circ}14'$
Mean $30^{\circ}50'$	Mean $84^{\circ}18'$
Ref -	$1^{\circ}38''$
h.	$30^{\circ}48'22''$
Decl July 4 th $22^{\circ}52'22''$	
-13.3×2 <u>26.6</u>	

Decl July 4 th 700 M., day. $22^{\circ}52'$	
P.D. $= 90^{\circ} - 22^{\circ}52'$	$67^{\circ}08'$
h. log cos of	$30^{\circ}48'22'' = 9.933945$
l. " " "	$39^{\circ}07' = 9.889785$
Z.D. =	$137^{\circ}03'22'' 19.823730. (a)$
	$y. (a) 9.911865 .(b)$
D. log cos of	$68^{\circ}31'41'' 9.363536$
S-P.D. " " "	$102.34'' 9.999871$
	add 19.563407
	$y. = 9.781703$
Sub (b)	<u>9.911865</u>
Y. Z. log cos of $12^{\circ}10'49''$	$= 9.869838$
	$Z = 84^{\circ}21.5$

Hor angle right $84^{\circ}18.5$
 diff is bearing of m. line $21^{\circ}03'E$
 I turn $90^{\circ}W$ and find the mag. bearing
 of the true meridian to be $W15^{\circ}07'W$
 and the mean declination is $15^{\circ}03'E$

North Boundary of T. 20 S. R. 26 E. S. L. M.

	Thence I run E. on a true line bet. secs. 6 and 31
	$\text{tan } 15^\circ 07' E$
1.17	Present track R. G. W. Ry bears $N 54^\circ E$
1.75	Right bank of Grand river, set a sand- stone 14x9x6 ins, 9 ins in the ground for meander cor fractional secs. 6 and 31 marked M.C. on E face; raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base along side. Pits imp.
	At 1.95 chs I set a flag for a backsight and set a point on line on left bank of river. From this latter point I measure a base 12.40 chs; from the end of this base the flag set on right bank of river bears $N 80^\circ 15' W$. The distance, then, is $2.40 \times \tan 80^\circ 15' = 2.40 \times 5.82 = 13.97 \text{ chs.}$ The whole distance is $1.95 + 13.97 = 15.92 \text{ chs.}$ I measure W 6 lms. and at
15.86	Left bank of Grand river, set a post 4x4 ins 4 ft long, 2 4 ins. in the ground for meander cor to fractional secs. 6 and 31 marked M.C. on W face, T 19 S. D 31 on N. R 26 E on E and T 20 S D 6 on D face, from which A cottonwood tree 11 ins in diam. bears $N 46^\circ W$ 6 lms dist, marked T 19 S. R 26 E D 31 M.C. B.G. A cottonwood tree 20 ins in diam. bears $S 3^\circ W$ 2 4 lms dist, marked T 20 S R 26 E D 6 M.C. B.G. The distance across river is 14.11 chs. Thence through heavy cottonwood timber
25.00	Enter dense willow undergrowth, leave timber
25.20	Thence bears $N 80^\circ E$
30.50	Center of slough 60 ft wide, 10 ft deep bears N and S.
37.00	Enter dense artemesia undergrowth leave willow undergrowth.

North Boundary of T. 20 N R. 26 E. S. L. M.

38.24	Gence bears N 20° E and S 20° W
40.00	Set a post 4x4 ins 4 ft long, with charred stake 12 ins in the ground for 1/4 sec cor. marked 1/4 N. on N face; dug pits 18x18x12 ins E and W of post. 5 1/2 ft dist and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside post.
51.00	Bench 20 ft high bears N 30° W and S 30° E leave river bottom.
75.00	Ascend to
80.00	Set a sandstone 18x10x6 ins. 12 ins in the ground for cor to secs 5, 6, 31 and 32 marked with 5 notches on E, and one notch on W edge; dug pits 18x18x12 ins in each sec. 5 1/2 ft dist, and raised a mound of earth 2 ft high, 4 1/2 ft base alongside.
	Sand river bottom and hilly; soil on river bottom alluvial 1 st rate; balance, sandy 2 nd and 3 rd rate.
	Heavy cottonwood timber or dense undergrowth on 64. 14 chs.

E on a line line bet secs. 5 and 32
to 14° 48' E

13.80	ascend through dense Artemesia undergrowth Coulter bears S 80° W
32.00	Ridge bears N.E.
35.50	Coulter bears N.W.
40.00	Set a sandstone 16x14x5 ins. 9 ins in the ground for 1/4 sec. cor, marked 1/4 on N face; dug pits 18x18x12 ins. E and W of stone 5 1/2 ft dist, and raised a mound of earth 1 1/2 ft high, 3 1/2 ft base alongside.
56.50	Head of gulch bears N 70° W.
62.70	Coulter bears N.W.
68.00	Coulter bears N.W.
78.00	Wash in gulch 40 ft deep bears N 70° W
80.00	Set a sandstone 20x17x5 ins. 10 ins in the ground; for cor to secs. 4, 5, 32 and 33 marked with 4 notches on E and 2 notches

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North Boundary of T 20 S R 25 E. A. S. M.

on Wedge; raised a mound of stone
 $1\frac{1}{2}$ ft high 2 ft base alongside. Pits imp.

Sand, hilly; soil, sandy, 3rd rate.

No timber

Dense artemesia undergrowth on
80.00 chs.

E on a tree line bet. secs. 4 and 33
Va $14^{\circ} 48' E$

0.32. Through dense artemesia undergrowth
Intersect Utah - Colorado boundary line
3.33 chs N of mile stone 145, which is
a sandstone, firmly set, $21 \times 18 \times 3$ ins
above ground, marked C 1885 on E
face and U 145 M on W face.

It is impracticable to set a stone in
the ground; I therefore set a sandstone
 $24 \times 20 \times 2$ ins, in a mound of stone
 $1\frac{1}{2}$ ft high, 2 ft base, for a closing
cov. to secs. 4 and 33, marked with 3
grooves and C.C. on W face and
6 grooves on N and D faces. Pits imp.
Land, rolling; soil, stony 4th rate.

No timber

Dense artemesia undergrowth on
0.82 chs.

July 4th 1894

For general description see sub-
divisional notes of this township

Frank E. Baxter
U. S. Dep. Surveyor.

List of Names.

A list of the names of the individuals employed by , U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the

..... Meridian, in , showing
the respective capacities in which they acted:

Final Oath of Assistants:

We hereby certify that we assisted , U. S. Deputy Surveyor, in surveying all
those parts or portions of the

..... Meridian, , as are represented in the
foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all
respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
according to the instructions furnished by the U. S. Surveyor General for

scribed and sworn to before me this }
day of , 18 }



Final Oath of U. S. Deputy Surveyor.

I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, the surveying manual, and the laws of the United States, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

U. S. Deputy Surveyor.

Subscribed and sworn to before me this _____
day of _____, 18_____. }



Approval.

Office of the U. S. Surveyor General,

Salisbury, N.C. June 10, 1895

The foregoing field notes of the survey of *The North Branch* _____
Township 20 South Range 26 East of the Field Lake
Base of Meridian in the Territory of U.S.

executed
Frank E. Bascom
under his Contract No. 196, dated January 18th, 1894 having been critical
examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe,
hereby approved.

George W. Snow
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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FIELD NOTES

OF THE SURVEY OF

The Subdivision of Township
20 South, Range 26 East

Of the Salt Lake Meridian,

Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

under his Contract No. 196, dated January 18th 1894.

Survey commenced July 5th, 1894.

Survey completed July 7th, 1894.

16.03' + 1.00'

111

11 0.65'

12 2.39'

1.90'

11.15' 4.62'

Names and Duties of Assistants.

REC 10/10/19

Samuel Norris	Chairman
Wallace Watson	Chairman
Edward Redmond	Axeman
Lovell Wells	Flagman

INDEX DIAGRAM.

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1						
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Preliminary Oaths of Assistants.

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman

Subscribed and sworn to before me this }
day of , 18 . }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this , Axeman.
day of . , 18 . } , Axeman.

Subdivision of 920 S. R. 26 E. A. S. M.

My instructions require me to run the
D bdy. of this Tp., and to begin the sub-
divisional survey on that bdy at the
cov-to secs 31 and 32.

It is impossible to run the D bdy and
the D 2 miles of the W bdy on account
of impassable cliffs. I therefore begin
on the W bdy at the cov-to secs. 19, 24, 25
and 30 and run E on a true line.

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R0236

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Subdivision of T. 20 S. R. 26 E. I.S. NW.

Survey commenced July 5th 1896
I begin on the W boundary of the 9th at the
cor to secs. 19, 24, 25 and 30.
Thence I run E on a true line bet. secs 19
and 30

Va $15^{\circ} 9' E$.

Through heavy scrub cedar timber
Wash in gulch 25 ft deep bears N.
Wash in gulch 40 ft deep bears N.
Wash in gulch 30 ft deep bears N.
Wash in gulch 30 ft deep bears N.
Wash in canon 100 ft deep bears N.
It is impracticable to set a stone in the
ground; I therefore set a sandstone
 $20 \times 17 \times 4$ ins., in a mound of stone, $1\frac{1}{2}$
ft high, 2 ft base, for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N face. Pits imp.
No bearing trees available.

Wash in gulch bears N.
Wash in canon 150 ft deep bears N $10^{\circ} W$
Ridge bears S, descend 150 ft to.
Marked cross, at exact cor. point, with
2 notches on N and 5 notches on E
of cross on ledge of red sandstone.
Jutting part of the W wall of canon
300 ft deep, for cor to secs. 19, 20, 29 and
30 and raised a mound of stone
 $1\frac{1}{2}$ ft high, 3 ft base alongside.
Pits imp. No bearing trees available.
Sand, rough, mountainous, soil, stony,
 $4^{\frac{1}{2}}$ ratio.
Heavy scrub cedar timber on 80.00 chs.

Note: The land to the E and S of this cor.
is extremely rough and precipitous
and of no value for agricultural
purposes and is impracticable to survey by
ordinary methods.

No $0^{\circ} 0' E$ bet secs. 19 and 20

Va $15^{\circ} 12' E$

Through heavy scrub cedar timber.

Subdivision of 9.20 S. R. 26 E. S. L. M.

	and dense Artemesia undergrowth. Enter couleé in canon bears N Leave couleé bears N 10° W
10.30	
16.40	
23.00	Foot of E wall of canon; ascend. The $\frac{1}{4}$ sec. cor. falls on face of cliff and cannot be set. I measure to
40.00	Wash cross W.C. $\frac{1}{4}$ on ledge of rock for witness $\frac{1}{4}$ sec. cor., and raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base 15 ft E of cor.
47.50	Top of ledge 200 ft above bottom of canon.
69.00	Couleé bears W.
80.00	It is impracticable to set a stone in the ground; I therefore set a sandstone 23 x 15 x 5 ins, in a mound of stone $1\frac{1}{2}$ ft high 2 ft base for cor. to secs. 17, 18, 19 and 20, marked with 3 notches on N and 5 notches on E edge. Pits imp. No bearing trees available Land, very rough, mountainous; soil stony, $\frac{1}{4}$ th rate. Heavy scrub cedar timber on 80.00 chs.
	W on a random line bet secs. 18 and 19 Va 15° 20' E
40.00	Set a temporary $\frac{1}{4}$ sec cor.
79.96	Intersect W bdy of $\frac{1}{4}$ sec. 4 lbs N of cor to secs. 13, 18, 19 and 24. Thereon I run, N 89° 58' E on a true line bet secs. 18 and 19 Va 15° 20' E
	As find through dense Artemesia undergrowth.
8.40	Wood road bears S.E. and N.W.
13.60	Wash in gulch bears N.W.
15.00	Enter heavy scrub cedar timber.
35.50	Couleé bears N.W.
39.98	Set a sandstone 24 x 16 x 7 ins, 18 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face; dug pits 18 x 18 x 12 ins E and W

Subdivision of T. 20 S. R. 26 E. S.D. Mo.

	opposite. 5 $\frac{1}{2}$ ft dist and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base along sides. No bearing trees available. Wash in canon 150 ft deep bears N. Ridge bears S.
52.00	
61.00	
68.50	Wash in canon 250 ft deep, bears N.
79.96	The cor to secs. 17, 18, 19 and 20 Land rough mountainous; soil stony, 4 th rate. Heavy scrub cedar timber or dense artemesia undergrowth on 79.96 chs.
	July 5 th 1894

	Wood E bet. secs 17 and 18 Va 10° 28' E
	Through heavy scrub cedar timber.
10.00	Coulees bears N.W.
15.00	Coulees bears W
20.00	Coulees bears W
21.00	Point of ridge bears E
29.00	Wash in bottom of canon 50 ft deep, bears W.
40.00	It is impracticable to set a stone in the ground; I therefore set a sandstone 20x10x3 ins, in a mound of stone, 1 $\frac{1}{2}$ ft high 2 ft base, for 1/4 sec. cor., marked 1/4 on W face. Pits imp. No bearing trees available.
40.10	Top of ledge
49.50	Wash in gulch 40 ft deep, bears W.
63.60	Coulees bears N.W.
65.00	Leave cedar timber; enter dense artemesia undergrowth.
72.00	Top of ridge bears W, descend
78.50	Coulees bears N 10° W.
80.00	It is impracticable to set a stone in the ground; I therefore set a sandstone 18x10x3 ins, in a mound of stone 1 $\frac{1}{2}$ ft high 2 ft base, for cor. to secs. 7, 8, 17 and 18, marked with 4 notches on S, and 5 notches on E edge. Pits imp.

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Subdivision of T. 20 S. R. 26 E. S. L. M.

	<p>Lands, mountainous; soil stony 4th rate. Heavy scrub cedar timber or dense artemesia undergrowth on 80.00 chs. Mountainous on 80.00 chs.</p>
	<p>Note: The magnetic declination has here decreased to $15^{\circ}12'$ E, probably 3' from diurnal change and 10' from local influences.</p>
	<p>$189^{\circ}58'$ W on a random line bet secs. 7 and 18</p>
	$\delta a. 15^{\circ}12' E$
40.00	Set a temporary $\frac{1}{4}$ acre cor.
79.94	Intersect W side of $\frac{1}{4}$ p at the cor to secs. 7, 12, 13 and 18.
	Thence I run $N89^{\circ}58' E$ on a true line bet secs. 7 and 18
	$\delta a. 15^{\circ}20' E$
	Through dense artemesia under-growth
7.00	Coulees bears S.W.
12.50	Coulees bears $N70^{\circ}W$
24.00 28.00 39.97	Ascend $\frac{1}{2}$ of cliff 60 ft high bears N.W. and $80^{\circ}E$ $\frac{1}{2}$ of hill. Set a sandstone. 18x6x4 ins. 12 ins in the ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N face; dug pits 18x18 x12 ins, E and W of set cor., $5\frac{1}{2}$ ft dia. and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside. Thence over top of hill.
61.50 78.00 79.94	Top of ledge 100 ft high; descend Coulees bears N.W. The cor to secs. 7, 8, 17 and 18.
	Lands mountainous; soil stony and sandy 3 rd and 4 th rate. Dense artemesia undergrowth on 79.94 chs.
	$N0^{\circ}0' E$ bet. secs. 7 and 8
	$\delta a. 15^{\circ}12' E$

Subdivision of T. 20 S. R. 26 E. D. C. M.

	Through dense artemesia under-growth.
7.00	Coulee bears from S.E. to S.W.
11.30	Ridge. A sandstone butte 150 ft high is 8.00 chs. W.
30.00	Sandstone butte 200 ft high 7.00 chs. E.
40.00	It is impracticable to set a stone in the ground; therefore set a sand-stone 18x12x4 ins., in a mound of stone 1½ ft high, 2 ft base for ¼ sec. cor marked ¼ on W face. Pits imp.
41.50	Coulee bears N.W.
49.00	Coulee bears W
60.20	Coulee 15 ft deep bears N.W.
63.50	Wash in gulch 50 ft deep bears N.W.
75.00	Wash in gulch 30 ft deep bears W.
80.00	Set a sandstone 16x8x5 ins 11 ins in the ground, for cor to secs. 5, 6, 7 and 8 marked with 5 notches on N, and 5 notches on E edge, dug pits 18x18x12 ins, in each sec., 5½ ft dist, and raised a mound of earth 2 ft high 4½ ft base alongside. Land mountainous, sloping to W. soil sandy and stony 3rd rate. No timber Dense artemesia undergrowth on 8.00 chs.

	189°58'W on a random line bet secs. 6 and 7
	1a 14°30' E
40.00	Temporary ¼ sec. cor in under-
79.82	Intersect W bdy of 9 1/8 miles N of cor to secs. 1, 6, 7 and 12. Hence I run N 89°50' E on a true line bet secs. 6 and 7
	1a 15°00' E
3.10	Through heavy cottonwood timber Leave timber and enter dense artemesia undergrowth.

Subdivision of T. 20 S. R. 26 E. I. L. C. M.

11.10	Ditch 6 lks wide 5 ft deep bears N 20° W.
20.70	Fence bears N 10° E., leave river bottom, ascend.
21.80	Top of bench
31.50	Ridge bears N 60° E
36.80	Wash in gulch 40 ft deep bears N 60° W
39.91	Set a post 3 x 3 ins 4 ft long, with marked stone, 12 ins in the ground for $\frac{1}{4}$ acre, cor, marked $\frac{1}{4}$ D on N face; dug pits 18 x 18 x 12 ins, E and W of post, 5 $\frac{1}{2}$ ft dia, and raised a mound of earth $1\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base around post.
57.00	Wash in gulch 60 ft deep bears N 80° W
61.20	Wash in gulch 50 ft deep bears S.
64.50	Wash in gulch 30 ft deep bears S. W.
73.80	Ridge bears N and S.
79.82	The cor to secs 5, 6, 7 and 8. Land mountainous and river bottom, soil sandy and stony $\frac{3}{2}$ rd rate, and alluvial 1 $\frac{1}{2}$ rd rate on river bottom. Heavy cottonwood timber or dense artemesia undergrowth on 79.82 ch.

N 0° 0' E on a random line bet secs 5 and 6.

Va 14° 50' E

40.00	Set a temporary $\frac{1}{4}$ acre cor.
81.82	Intersect N bdy of township 14 lks W of cor to secs. 5, 6, 31 and 32. Thence I run N 0° 0' W on a true line bet secs 5 and 6
	Va 15° 00' E

Through dense artemesia undergrowth

23.50	Wash in gulch 75 ft deep bears N 10° W.
41.50	Wash in gulch 40 ft deep bears N W.
41.82	It is impracticable to set a stone in the ground; I therefore set a sand stone 24 x 6 x 5 ins, in a mound of stone, 1 $\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$

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Sub-division of 920 S. R 26 E. S.L. M.

sec. cor., marked $\frac{1}{4}$ on W face.
Pits imp.

57.70 Coule' bears W.

63.70 Wash in gulch 40 ft deep bears N.W.
The cor to secs. 5, 6, 7 and 8

Land mountainous; soil sandy
and stony 3rd rate.
No timber.

Dense artemesia undergrowth
on 81.82 chs.

From ~~E~~^{The land S.E. of this cor being unmeasurable by ordinary methods on a true line bet secs 5 and 8}

8 a 14° 55' E

Ascend through dense artemesia
undergrowth.

40.00 Set a sandstone 18x10x5 ins, 12 ins in
the ground, for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on W face; dug pits 18x18x12 ins
E and W of stone 5 $\frac{1}{2}$ ft dist, and
raised a mound of earth 1 $\frac{1}{2}$ ft
high, 3 $\frac{1}{2}$ ft base alongside.

47.00 Enter heavy scrub cedar timber.

57.00 Wash in canon 100 ft deep bears N.W.
W

73.40 Top of ledge of rock, 10 ft high; ascend.

It is impracticable to set a stone in
the ground; therefore set a sand-
stone 27x10x4 ins, in a mound of stone
1 $\frac{1}{2}$ ft high, 2 ft base, for cor. to secs.
4, 5, 8 and 9, marked with 5 notches
on N and 4 notches on E edge.
Pits impracticable. No bearing trees
available.

Land, mountainous; soil sandy and
stony 3rd and 4th rate.

Heavy scrub cedar timber or dense
artemesia undergrowth on 80.00 chs.

N. 0° 0' E on a random line bet secs 4 and 5

8 a 14° 55' E

40.00 Set a temporary $\frac{1}{4}$ sec. cor.

Subdivision of 920 S. R. 26 E. Ad. M.

81.90	Intersect N bdy of 9th & 5th ss W of cor. to secs. 4, 5, 32 and 33 Hence run, 1000' W on a true line bet. secs 4 and 5 Va 14055' E
2.40	Through dense artemesia undergrowth Wash in gulch bears N.W.
41.90	Set a sandstone 20x6x3 ins. 15 ins in the ground for 1/4 acre cor., marked 1/4 ac W face; dug pits 18x18x12 ins. Hand D of stone, 5 ft dist, and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside.
49.40	Coule bears W
63.90	Enter heavy cedar timber.
70.00	Wash in gulch 30 ft deep bears W.
79.20	Coule bears N.W.
- 81.90	The cor. to secs. 4, 5, 8 and 9 Sand, rolling; soil sandy, 3 rd rate. Heavy scrub cedar timber or dense artemesia undergrowth on 81.90 ch.
<hr/>	
0.11	Ear a true line bet secs 4 and 9 Va 14050' E
	Intersect Utah - Colorado bdy line 1.90 chs N of mile stone 144 which is a sandstone, firmly set in place, 14x14x4 ins above ground, marked Cor E face and U 144 W on W face. It is impracticable to set a stone in the ground, I therefore set a sandstone 22x10x5 ins, in a mound of stone 1 1/2 ft high, 2 ft base, for closing cor to fractional secs. 4 and 9, marked C.C. with three grooves on W face, 1 groove on N and 5 grooves on D face. Pits impracticable. Land rolling, soil stony 4 th rate.

July 6th 1894

Meanders 9.20 S. R. 26 E. D.L.W.

Meanders of left bank of Grand river, up stream.

I begin at the meander cor., on W bdy of 7p, to fractional secs. 1 and 6. Thence I run with meanders in Secs 6 & 15⁰⁰E

Over level bottom, through dense willow underbrush and scattering cottonwood timber, bank, 6 ft high.

N 42^{1/2}E 13.80 chs.

N 30° E 7.30 ..

N 25^{1/2}E 7.40 .. At 0.11 chs fence bears S 75°E
at 2.10 .. center of slough
80 ft wide, 4 ft deep bears E

N 4 3/4 W 2.58 .. to meander cor. to fractional secs. 6 and 31

At 0.45 chs fence bears E

Land level; soil, alluvial, 1st rate.

Dense willow underbrush and scattering cottonwood timber on 31.08 chs.

Meanders of right bank of Grand river, down stream.

I begin on the N bdy of the 7p. at the meander cor. to fractional secs. 6 and 31.

Thence I run with meanders in sec. 6

& 15⁰⁰E

S 47°W 2.09 chs to meander cor to fractional secs 1 and 6.

Land level; soil alluvial, 1st rate.

No timber.

July 7th 1894

General Description T. 20 S. R. 26 E. S. M.

This fractional township has some good alluvial land in secs 6 and 7. The remainder is mountainous and is of value for grazing purposes only. The cedar timber growing in secs. 18 and 19 is stunted and of no value excepting for fuel.

The mag. declination is $15^{\circ}00' E$ but it varies considerably in different localities.

John Brandon lives in sec. 7. He has a log cabin and 1 mile of fence. He cultivates about 10 acres by means of an irrigating ditch from Grand river. His improvements are valued at \$400⁰⁰.

Tom Brandon, located in sec. 1 T. 20 S. R. 25 E. has $\frac{1}{2}$ miles of fence valued at \$150⁰⁰ in sec 6.

I was unable to ascertain the location of Samuel C. Fisher or Desert Entry No 513.

Geo M^cBainey has left the vicinity. Geo D Grant and C. H. Hallett live in T 20 S R 25 E.

There are no indications of mineral in this township.

Frank E. Baxter,
U. S. Dep. Surveyor.

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List of Names.

Final Oath of Annihilation:

We keep trying to fit in.

, U. S. Deputy Surveyor, in surveying all

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Meredith, as are represented in the map he has surveyed by him and under his direction; and that said survey has been in all respects and believed well and faithfully surveyed, and the corner monuments established, furnished by the U. S. Surveyor General for

filled and worn to before you die.

144

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Jan. 1895

Final Oath of U. S. Deputy Surveyor.

I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, the surveying manual, and the laws of the United States, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

U. S. Deputy Surveyor.

Subscribed and sworn to before me this _____ }
day of _____, 18_____. }



Approval.

Office of the U. S. Surveyor General,

Salt Lake City, Utah

June 6, 1895

The foregoing field notes of the survey of _____
*The subdivisions of fractional
 Township 20 South Range 26 East of the Salt
 Lake Meridian, Territory of Utah*

executed by _____
 Frank E. Baxter
 under his Contract No. 196, dated January 18th, 1894, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, hereby approved.

George W. Wood

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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wft.
S. J. B.

S. J. B.

FIELD NOTES

OF THE SURVEY OF

The Exterior Lines of Township 19 South
Range 25 East

Of the Salt Lake Meridian,

Possession of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

under his Contract No. 196, dated January 18th, 1894

Survey commenced July 10th, 1894.

Survey completed July 12th, 1894

CB 4
5-180
RB 4-511
11-7356

Daniel Morris Chairman
Wallace Watson Chairman
Edward Redmond Axeman
Lovel Wells Plagman

Volume

#

R0236

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Meanders Page

That we will have the surveyor to make a plan of the boundaries of the counties; that we will have the same made out in the most exact manner by selecting a surveyor that we will repeat the survey of the county and to extend the same if all lines that we used in measuring, to the best of our knowledge, to a point where we may have a clear title in the survey of the county.

That we will have the surveyor to make a plan of the county.

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Very

That we will have the surveyor to make a plan of the county and to establish corners and other points in the county to be used for the purpose of establishing the survey of the county.

That we will have the surveyor to make a plan of the county.

Statement

Statement

East Boundary 919 S. R 25 E. I. S. M.

501

Survey commenced July 10th 1894
Previous to going to work I test the ad-
justments of my transit and length of
my chain and find them correct.

I set my instrument over the cor. to
Tps 19 and 20 S. R. 25 and 26 E. and take a
back sight on the E. ledge of Tp 20 S previously
established by myself.

Thence I run N on E. ledge of Tp. but.
secs 31 and 36

1 Va 15° 0' E

Through dense artemesia undergrowth

Fence bears N 50° E and S. W.

Top of vertical cliff 100 ft high bears
N 80° E and N 80° W

Top of mountain 200 ft above cor. bears E
Corner bears W.

Set a sandstone 14x14x5 ins, 10 ins in the
ground for cor. sec. cor. marked N 80° W
face; raised a mound of stone 1½ ft high
2 ft base alongside. Pits imp.

Corner bears W, 100 ft below top of hill.

Salt Lake wagon road bears S. W.

Top of ledge

Top of ridge bears W.

Set a sandstone 20x9x6 ins 15 ins in the
ground for cor. to secs. 25 & 30 31 and 36
marked with 5 notches on W and 1 notch
on ledge, raised a mound of stone, 1½ ft
high, 2 ft base alongside. Pits imp.

Sound, mountainous, soil stony & rate.
No timber.

Dense artemesia undergrowth on 8000 chs
Mountainous on 8000 chs.

N but. secs 25 and 30

1 Va 15° 0' E

Through dense artemesia undergrowth.

Wash in gulch 50 ft deep bears W

Wash in head of gulch bears S. W.

Wash in gulch 30 ft deep bears S. W.

East Boundary T. 19 S. R. 25 E. I. S. M.

31.30	Wash in gulch 30 ft deep bears W.
35.30	Ridge bears E.
40.00	Set a sandstone 16x14x8 ins, 10 ins in the ground, for 1/4 sec. cor., marked 1/4 on W face; raised a mound of stone 1 1/2 ft high, 2 ft base alongside. Pits imp.
40.30	Coule' bears W.
52.10	Coule' bears N.W.
59.50	Coule' 20 ft wide 5 ft deep bears N 70° W
63.00	Ridge bears W
75.30	Coule' bears S.W.
80.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 20x12x6 ins. in a mound of stone 1 1/2 ft high, 2 ft base, for cor. to secs. 19, 24, 25 and 30, marked with 4 notches on N and 3 notches on S edge. Pits imp. Land mountainous; soil stony & dry rate. Scattering cedar timber on ridges. Mountainous on 8000 chs.
W bet secs 19 and 24 Va 14050° E	
18.20	Coule' bears W.
20.50	Top of stony ridge bears N.E. and W.
28.00	Wash in gulch bears N.W.
30.20	Wash in gulch 30 ft deep bears W
35.00	Top of ridge bears W.
40.00	Set a sandstone 16x12x4 ins, 10 ins in the ground for 1/4 sec. cor., marked 1/4 on W face; dug pits 18x18x12 ins N and S of stone 5 1/2 ft dist and raised a mound of earth 1 1/2 ft high, 3 1/2 ft base alongside.
60.00	Wash in gulch 70 ft deep bears S.W.
72.00	Top of mountain; enter heavy scrub cedar timber
80.00	Set a sandstone 16x12x6 ins 10 ins in the ground, for cor. to secs. 16, 18, 19 and 24 marked with 3 notches on N and S edges, raised a mound of stone 1 1/2 ft high, 2 ft base alongside. Pits imp.

50

East Boundary 9.19 S. R. 25 E. S. L. M.

No bearing trees available.
Land mountainous; soil stony 4th rate.
Heavy scrub cedar timber on 8.00chs.
Mountainous on 80.00chs.

N bet. secs. 13 and 18

1/4 14054' E

Through heavy scrub cedar timber
Wash in gulch 50 ft deep bears W.W.
Top of stony hill bears W
Set a sandstone 16x14x5 ins 10 ins in the
ground, for 1/4 sec. cor., marked 1/4 on W
Face, dug pits 18x18x12 ins N and S of stone,
5 1/2 ft dist, and raised a mound
of earth 1 1/2 ft high, 2 ft base alongside.
No bearing trees available.

45.00 Wash in gulch 60 ft deep bears W.W.

Ridge bears W.

60.00 Leave cedar timber

65.00 Wash in gulch 40 ft deep bears S.W.

70.10 Stony ridge 40 ft high bears E

76.00 Wash in gulch bears W.W.

80.00 It is impracticable to set a stone in
the ground, I therefore set a sandstone
16x14x7 ins, in a mound of stone 1 1/2 ft
high 2 ft base for cor to secs. 7, 12, 13 and
18, marked with 2 notches on N and
4 notches on S edge. Pits imp.

Land mountainous; soil stony 4th rate.

Heavy scrub cedar timber on 60.00chs.

Mountainous on 80.00chs.

July 10th 1894.

N bet. secs. 7 and 12

1/4 14056' E

Couler' bears W.

Couler' bears W

Top of hill descend 100 ft to

Couler' bears W.W.

Couler' bears W

It is impracticable to set a stone in the

6.00

10.00

20.00

31.30

39.50

40.00

31^v
East Boundary 9.19 S. R. 25 E. D.L.M.

	ground, I therefore set a sandstone 17x10x3 ins., in a mound of stone 1½ ft high 2 ft base, for ¼ sec cor., marked ¼ on W face. Pits imp.
45.00	Top of hill 40 ft above ¼ sec cor.
52.40	Coulees bears W.
69.00	Coulees bears SW.
72.00	Point of stony ridge 75 ft high bears E, descend to
80.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 18x10 x4 ins., in a mound of stone 1½ ft high 2 ft base, for cor. to secs. 1, 6, 7 and 12 marked with 1 notch on W. and 5 notches on S edge. Pits imp. Lands, mountainous; soil stony & rate. Some scrub cedar and artemesia undergrowth on hill. Mountainous on 80.00 chs.

	W. but secs 1 and 6 Va 14° 50' E.
	Through dense artemesia undergrowth
3.70	Bitter creek (dry) 20 ft wide bears S.W.
7.30	Bitter creek bears S.E.
26.30	Point of ridge bears N.E.
40.00	Set a sandstone 17x10x3 ins 12 ins in the ground for ¼ sec cor., marked ¼ on W face; dug pits 18x18x12 ins. N and S of stone, 5½ ft dist, and raised a mound of earth 1½ ft high 3½ ft base along edge.
44.30	Bitter creek (dry) bears S.W.
76.00	Coulees bears S.E.
80.00	Set a slate stone 16x10x4 ins 10 ins in the ground for cor to 9 ps 18 and 19 S. R. 25 and 26 E, marked with 6 notches on each edge; dug pits 24x18x12 ins length- wise on each line N.E. and W of stone 6 ft dist. and raised a mound of earth

511

North Boundary T. 19 S. R. 25 E. I.L.M.

$2\frac{1}{2}$ ft high $5\frac{1}{2}$ ft base alongside.
 Sand, mountainous and rolling, soil
 clayey and stony, 3rd and 4th rate.
 No timber

Dense artemesia undergrowth on
 80.00 chs.

Mountainous on 40.00 chs.

I now turn 90° left and run N
 on a random line on the
 N boundary of the T. 19 S. setting temporarily
 $\frac{1}{4}$ sec. and Sec. cor. at 40 and 80 chs.

Va $14^{\circ} 50' E$

At 5 miles 78.56 chs I intersect N and S
 line 21 chs N of cor to Tps 18 and 19 S. R. 24
 and 25 E which is a charred post, firmly
 set, 4 ins square, 2 ft above ground,
 marked with 6 notches on each edge,
 with T. 18 S. on N R. 25 E on E, T. 19 S. on S.
 and R. 24 E on W faces.

Beginning at this cor. I run N $89^{\circ} 58' E$ on
 a true line bet secs 6 and 31

Va $15^{\circ} 11' E$

Through dense artemesia undergrowth
 Salt Lake wagon road bears S.W. and N.E.
 Top of mesa bears N.W. and S.

Set a sandstone 15x12x6 ins 10 ins in the
 ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N
 face, dug pits 18x18x12 ins E and W of stone
 $5\frac{1}{2}$ ft dist. and raised a mound of earth
 $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base alongside.

Abandoned line R. G. W. Ry bears S.W. and N.E.

Creek bears S.W.

Set a sandstone 15x12x8 ins 10 ins in the
 ground for cor to secs 5, 6, 31 and 32, marked
 with 5 notches on E and 1 notch on W edge;
 dug pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft
 dist. and raised a mound of earth
 $2\frac{1}{2}$ ft high, $4\frac{1}{2}$ ft base alongside.

Sand nearly level; soil sandy loam 2nd
 rate. No timber.

4.20

12.50

38.56

49.50

54.50

78.56

North Boundary T. 19 S. R. 25 E. I. S. M.

dense artemesia undergrowth on 7.856 chs.

N 89° 58' E on a tree line bet secs. 5 and 32
Ra 15° 11' E

Over level ground, through dense artemesia undergrowth.

28.00 Top of bench bears S.; descend 40 ft to
Coulter 8 ft wide 5 ft deep bears S.
40.00 Set a sandstone 15x10x5 ins, 10 ins in the
ground for 1/4 sec. cor, marked 1/4 on N.
face; dug pits 18x18x12 ins E and W of stone,
5 1/2 ft dist, and raised a mound of earth
1 1/2 ft high, 3 1/2 ft base alongside.

Coulter bears Ø 70° W

72.70 Wash in gulch 10 ft deep bears S.W.
80.00 Set a sandstone 18x8x4 ins, 12 ins in the ground
for cor to secs. 4, 5, 32 and 33, marked with
4 notches on E, and 2 notches on W edge;
raised a mound of stone 1 1/2 ft high, 2 ft
base alongside. Pits imp.

Land level and rolling; soil sandy loam
and clayey 2nd and 3rd rate.

No timber

dense artemesia undergrowth on 80.000 chs.

N 89° 58' E on a tree line bet secs 4 and 33
Ra 15° 11' E

Through dense artemesia undergrowth

2.70 Top of hill bears N.E.; descend.
9.50 Coulter 10 ft wide, 5 ft deep bears S.W.
15.00 Bush in Coulter bears Ø 60° W
28.50 Same coulter 15 ft wide, 5 ft deep bears
Ø 80° W.
40.00 Set a sandstone 16x12x3 ins 10 ins in the
ground, for 1/4 sec. cor. marked 1/4 on
N face; dug pits 18x18x12 ins E and W
of stone, 5 1/2 ft dist, and raised a mound
of earth 1 1/2 ft high, 3 1/2 ft base alongside.
Variation increased to 10° 25' E at this point
from local attraction.
Ridge bears Ø descended 50 ft to

North Boundary 9.19 S. R 25 E. D.L.W.

80.00	Set a sandstone 16x12x3 ins, 10 ins in the ground for cor to secs. 3, 4, 33 and 34 marked with 3 notches on E and W edges, raised a mound of stone 1½ ft high, 2 ft base alongside. Pits imp. Land hilly and broken; soil clayey 3 rd rate. No timber Dense artemesia undergrowth on 80.00 chs.
0.50	W 89° 58' E on a true line bet. secs. 3 and 34 Va 15° 00' E Through dense artemesia undergrowth Coulter bears N 30° E
9.00	Coulter bears N
15.20	Coulter bears N 30° E
40.00	Set a sandstone 14x12x6 ins 10 ins in the ground for ¼ sec. cor., marked 'cor' N face; dug pits 18x18x12 ins. E and W of stone, 5½ ft dist, and raised a mound of earth 1½ ft high, 3½ ft base alongside.
52.00	Top of ridge bears S.W. Variation here decreases to 14005° E.
79.00	Coulter bears S.E.
80.00	Set a sandstone 14x10x4 ins, 10 ins in the ground, for cor. to secs 2, 3, 34 and 35, marked with 2 notches on E, and 4 notches on W edge; raised a mound of stone 1½ ft high, 2 ft base alongside. Pits imp. Land, rolling; soil, sandy 3 rd rate No timber. Dense artemesia undergrowth on 80.00 chs.
88.00	W 89° 58' E on a true line bet. secs. 2 and 35 Va 14005° E Through dense artemesia undergrowth Top of ridge bears S.E.
26.00	Enter heavy scrub cedar timber.
30.00	Top of ridge 75 ft high bears S.

North Boundary T. 9 S. R. 25 E. S. L. No.

40.00	It is impracticable to set a stone in the ground, therefore set a sandstone 18x6x4 ins, in a mound of stone, 1 1/2 ft high, 2 ft base for 1/4 sec. cor., marked 1/4 on N face. Pits imp. No bearing trees available.
43.20	Wash in bottom of canon 150 ft deep bears N.E.
59.10	Top of hill
53.00	Leave cedar timber
61.00	Foot of hill, 200 ft below summit bears N.E.
80.00	Set a sandstone 20x5x9 ins 15 ins in the ground, for cor to secs. 1, 2, 35 and 36, marked with 1 notch on E, and 5 notches on W edge; dug pits 18x18x12 ins in each sec. 5 1/2 ft dist, and raised a mound of earth 2 ft high, 1 1/2 ft base alongside. Land mountainous and rolling; soil sandy and stony 3 rd and 4 th rate. Heavy scrub cedar timber or dense artemesia undergrowth on 80.00 chs. Mountainous on 61.00 chs.
N 89° 58' E on a line lies bet secs. 1 and 36 Va 14° 52' E	
110.00	Through h dense artemesia undergrowth Set a sandstone 14x8x4 ins. 10 ins in the ground for 1/4 sec. cor., marked 1/4 on N face; raised a mound of stone 1 1/2 ft high 2 ft base alongside. Pits imp.
115.40	Top of bunch bears N and O, cleared.
110.50	Coulees bears N.
113.30	Coulees bears O.E.
8000	The cor to 9 ps 18 and 19 D. R. 25 and 26 E Land level and rolling; soil clayey and sandy; 3 rd rate. No timber
	Dense artemesia undergrowth on 80.00 chs
	July 12 th 1894

Exteriors of T. 19 S. R. 25 E.

For general description, see notes of
sub-division of this township

Latitudes, departures and closing errors

Line	True bearing	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
01dy	E	479.42			479.42	
E "	W	480.00	480.00			
N "	089°58'W	478.56		0.21		478.56
W "	N	480.00		480.00		
Convy'						0.58
			480.00	480.21	479.42	479.14
				480.00	479.14	
Errors in latitudes and dep			0.21	0.28		

Frank E. Baxter,
U. S. Dep. Surveyor.

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i of Names.

A list of the names of the individuals employed by
....., U. S. Deputy Surveyor, to assist in running, measuring, and
making the lines and corners described in the foregoing field notes of the survey of the

..... Meridian, in, showing
their respective capacities in which they acted:

Final Oath of Assistants:

We hereby certify that we assisted
....., U. S. Deputy Surveyor, in surveying all
the parts or portions of the

..... Meridian,, as are represented in the
foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all
respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
according to the instructions furnished by the U. S. Surveyor General for

Subscribed and sworn to before me this }
day of , 18 }



I,, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from ..., U. S. Surveyor General for ..., bearing date of the ... day of ..., 18 ..., I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for ..., surveying natural, and the law of the United States, surveyed all those parts or portions of ...

..... Meridian, in the as are represented in the field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that the corners of said survey have been established and perpetuated in strict accordance with the surveying maps, printed instructions, the special written instructions of the U. S. Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

U. S. Deputy Surveyor

Subscribed and sworn to before me this }
day of , 18 }

SEAL
APPROVED

Approval.

Office of the U. S. Surveyor General,
Galveston City, Tex.

June 16, 1895

The foregoing field notes of the survey of ~~the North and East~~
~~Boundary of Township 19 South 18 Range~~
~~East of the Black Lake Branch~~
~~in the Territory of Texas,~~

executed
for his Contract No. 196, dated January 18, 1894, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, hereby approved.

George E. Hayes
U. S. Surveyor General

I certify that the following transcript of the field notes of the above-described surveys in,

....., has been correctly copied from the original notes on file in this office.

U. S. Surveyor General

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W.P.A.
S. J. B.

S. J. B.

FIELD NOTES

OF THE SURVEY OF

Subdivision of Township 19 South
Ranger 25 East

Of the Dall Castle Meridian,

Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

under his Contract No. 196, dated January 18th, 1894.

Survey commenced July 13th, 1894.

Survey completed July 21st, 1894.

FBI-2, 00) 0-151

H . 58 57-11V
L . 1-20 69V
39 77 71

ames and S.O.

Samuel Morris Chairman
Wallace Watson Chairman
Edward Redmond Vice-chairman
Lowell Wells Flag-man

Volume

#

R0236

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33		33		25		17		8		2
31	32	32	24	33	16	34	8	35	2	30

Meanders Page.....

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 18 . }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this }
day of , 18 . }

, Axeman.

, Axeman

versus
J. 19. & R. 25. 60.

326A

BOOK A-236

~~58.57 ✓ 11 ✓ 130.60 ✓~~

14/12/13 0111 N.Y.

Volume

#

R0236

Subdivision of T. 19 S. R. 25 E. S. L. M.

The survey of this township was begun July 13th 1894.

After adjusting my transit and my chain, I set my instrument on the body of the top at the corner to secs 1, 2, 3, 5 and 36, in lat. $39^{\circ}07'W$, long. $109^{\circ}07'W$ and take the following obs on the sun for meridian. Time 7 A.M.

After clamping the horizontal limb at "0" and directing telescope on a foresight on the uppermost meridian, I take the following readings on sun's center.

Alt. hor angle right.

$24^{\circ}45'$ $81^{\circ}11'$

$24^{\circ}55'$ $81^{\circ}19'$

$25^{\circ}02'$ $81^{\circ}24'$

$\underline{25^{\circ}10'}$ $81^{\circ}30'$

Sum $99^{\circ}52'$ ✓ Sum $325^{\circ}24'$

Mean $24^{\circ}05.8'$ Mean $81^{\circ}21'$ ✓

Ref. - $\underline{2''}$

$h = 24^{\circ}56'$

Dec. July 13 ephemeris $21^{\circ}48'36''$
 $- 22'' \times 2$ $\underline{44''}$

Dec. 7 A.M. July 13th, oday, $21^{\circ}48'$

P.D. = $90^{\circ} - 21^{\circ}48'$ $68^{\circ}12'$

$\frac{1}{2} \log \cos \alpha$ $39.07' = 9.889785$

h " " ? $24.056' = \underline{9.957511} \checkmark$

$2D = 132^{\circ}15' 19.847296 \checkmark (a)$

$\frac{1}{2}(a) = 9.923648, (b)$

$66^{\circ}07.5' = 9.607179$

$2^{\circ}04.5' = \underline{9.999715} \checkmark$

Add 19.606894

$\frac{1}{2}r = 9.803447$

Sub(b) $\underline{9.923648}$

$\frac{1}{2}Z \log \cos \alpha 40^{\circ}41' \frac{1}{2}r = 9.879799$

$Z = 81^{\circ}23'$

Hor angle right - $\underline{81^{\circ}21'}$

Ref line bears $N 02'E$.

I turn 2' left and the mag. bearing of the true meridian is $N 10\frac{1}{2}' W$

Subdivision of T. 19 S. R. 25 E. S. L. M.

The mean declination is then, $15^{\circ}07'6''$

Thence I run N 000° W bet secs 35 and 36
Va $15^{\circ}12'6''$

descend

10.00	Coulee 40 ft below sec. cor. bears N. E.
15.80	Coulee bears N. E.
22.00	Enter heavy scrub cedar timber
23.00	Ridge bears S. W.
26.30	Wash in gulch 30 ft deep bears E.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone, $18 \times 14 \times 4$ ins, in a mound of stones $1\frac{1}{2}$ ft high 2 ft base, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face. Pilots imp. No bearing trees available.
	Top of ridge bears W.; descend.
47.00	Coulee bears N. E.
52.80	Coulee bears N 60° E
55.50	Coulee bears N 80° E
62.20	Coulee bears from N 10° E to S. W.
77.30	Top of stony hill 60 ft high bears W. The mag. declination has here decreased to $14^{\circ}05'6''$
80.00	Set a sandstone $20 \times 12 \times 5$ ins, 10 ins in the ground, for cor. to secs. 25, 26, 35 and 36 marked with 1 notch on S and 1 notch on E edge; raised a mound of stones $1\frac{1}{2}$ ft high, 2 ft base alongside. No B.T.s. available. Land, mountainous; soil stony & late. Heavy scrub cedar timber on 58.00 chs. Mountainous on 80.00 chs.

E on a random line bet secs 25 and 36
Va. $14^{\circ}05'6''$

40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.03	Intersect E bdy of tp 4 miles S of cor. to secs 25, 30, 31 and 36 Thence I run S $89^{\circ}56'W$ on a true line bet. secs. 25 and 36 Va $14^{\circ}05'6''$

500

Subdivision of T. 19 S. R. 25 E. S.S. M.W.

	descend through dense artemesia undergrowth.
5.00	Wash in gulch bears S.W.
12.00	Foot of hill
17.00	Coule ⁱ 10 ft wide & ft deep bears S.W.
38.60	Bitter creek (dry) bears D.
40.01	Set a sandstone 18x10x4 ins, 12 ins in the ground, for 1/4 sec. cor., marked 1/4 on N face, dug pits 18x18x12 ins East W. of stone, 5 1/2 ft dist and raised a mound of earth 1 1/2 ft high, 3 1/2 ft base alongside.
	ascend, leave undergrowth
45.00	Top of hill 50 ft above Bitter creek bears N and D
51.70	Top of stony ridge bears D.W.
63.70	Point of ridge 60 ft high bears D.
74.50	Coule ⁱ bears D.W.
76.30	Coule ⁱ bears D.E.
80.03	The cor to secs 25, 26, 30 and 36. Land mountainous; soil stony & rate.
	No timber
	Mountainous on 80.03 chs.

No 0° W set secs 25 and 26

at 14° 0' 54" E

ascend

38.00	Wash in gulch 100 ft deep bears S.W.
40.00	Enter heavy scrub cedar timber; top of ledge bears W; marked cross at exact an point with 1/4 on ledge, for 1/4 sec. cor and raised a mound of stone 1 1/2 ft high to 2 ft base alongside. Pits imp. No bearing trees available.
45.80	Top of steep ascent
60.00	Top of mountain 500 ft above sec. cor. The variation has here decreased to 14° 45' E. at 1 P.M.
80.00	Set a sandstone 20x12x5 ins, 10 ins in the ground for cor to secs 23, 24, 25 and 26

Subdivision of 9 1/2 A. R. 2.5 E. D.S.W

marked with 2 notches on S, and 1 notch on E edge; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base along side. Pits imp. No bearing trees available.

Sand mountainous; soil stony, 4th rate.
Heavy scrub cedar timber on 40.00 chs.
Mountainous on 80.00 chs.

W 89056' E on a random line bet secs 24 and 25

Va $14^{\circ} 45'$ E

- 40.00 At a temporary $\frac{1}{4}$ sec. cor.
Intersect E bdy. of 9th p. 10 lots N of cor
to secs 19, 24, 25 and 30
Hence I run W on a true line bet secs.
24 and 25
- 25.00 Va $14^{\circ} 45'$ E
Through dense Artemesia under-
growth
Edge of hill 40 ft above Bitter creek;
leave undergrowth
- 27.80 Coule bears S.
Bitter creek, (dry) 30 ft wide, bears 22° E
- 35.00 Wash in gulch 40 ft deep bears N.
Ridge bears N.W.
- 40.00 It is impracticable to set a stone in
the ground, I therefore set a sand-
stone $18 \times 10 \times 4$ ins, in a mound of
stone, $1\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ sec.
cor., marked $\frac{1}{4}$ on N face. Pits imp.
- 45.60 Coule bears N
Foot of steep ascent
- 49.00 Top of mountain 500 ft high, bears N.
The cor. to secs. 23, 24, 25 and 26
- 55.00 Sand mountainous; soil stony 4th
rate.
No timber
Mountainous on 80.04 chs.

W 0001W bet. secs. 23 and 24

Va $14^{\circ} 46'$ E

Subdivision of T. 19 S. R. 25 E. A. L. M.

	Through heavy scrub cedar timber
10.00	Top of mountain; descend
16.00	Descend gradually along E slope over steep ground; leave cedar timber.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 20x9x4 ins, in a mound of stone, 1½ ft high 2 ft base, for ¼ sec. cor. marked ¼ on W face. Pits imp.
80.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 12x9x8 ins in a mound of stone, 1½ ft high, 2 ft base, for cor. to secs. 13, 14, 23 and 24, marked with 3 notches on N, and 1 notch on E edge. Pits imp. Land mountainous; soil stony, & late. Heavy scrub timber on 16.00 chs mountainous on 80.00 chs.

July 13th 1894

E on a random line bet secs. 13 and 24

Va. 14052' E

40.00	Set a temporary ¼ sec. cor.,
79.79	Intersect E side of top of hills N of cor to secs. 13, 18, 19 and 24
	Hence 189°57' W on a true line bet secs 13 and 24

Va 15000' E

	Through heavy scrub cedar timber
3.00	Edge of hill, descend over stony ground. Leave cedar timber.
7.30	Wash in gulch 60 ft deep bears N.W.
12.80	Top of stony ridge bears N.W.
30.30	Bitter creek (dry) 30 ft wide, bears N 30° E.
39.90	It is impracticable to set a stone in the ground, I therefore set a sandstone 18x16x4 ins, in a mound of stone, 1½ ft high, 2 ft base, for ¼ sec cor. marked ¼ on N face. Pits imp.
43.80	Top of bluff 70 ft above Bitter creek bears N.E.; ascend over broken ground.

Subdivision of T. 19 S. R 25 E. N. d M.

79.79	The cor. to secs. 13, 14, 23 and 24. Sand mountainous; soil stony, & thin Scant cedar timber on 3.00 chs. Mountainous on 79.79 chs.
	N 000° W bet. secs. 10 and 11 Va 14050' E descend.
15.00	Foot of mountain.
19.70	Couler bears E.
28.00	Couler bears N.E.
34.00	Couler bears E
38.00	ascend steep slope
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 16x8x5 ins in a mound of stone 1½ ft high 2 ft base, for ¼ ac. cor., marked ¼ on W face. Pits imp.
53.60	Top of steep ascent 400 ft high, bears W and N. Enter heavy scrub cedar timber.
75.00	Top of mountain, descended to
80.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 16x8x5 ins, in a mound of stone 1½ ft. high, 2 ft base, for cor. to secs. 11, 12, 13 and 14, marked with 4 notches on D, and 1 notch on E edge. Pits imp. Leave scrub cedar timber. No bearing trees available. Sand mountainous; soil stony & thin Heavy scrub cedar timber on 26.40 chs. Mountainous on 80.00 chs.
	N 89°57' E on a random line bet secs 12 and 13 Va 14040' E
40.00	Set a temporary ¼ ac. cor.
79.81	Intersect E bdy of 79.18 chs of cor to secs 7, 12, 13 and 18 Hence I run, N 89°49' W on a true line bet secs 12 and 13

Subdivision of 9.19 A.R. 25 E. I.S. W.

Va. 14° 55' E

- Enter heavy scrub cedar timber.
 17.80 Leave cedar timber; descend 40 ft to
 couler bears from S.E. to W.
 20.80 Leave same couler bears N.W.
 32.00 Point of stony ridge bears S.W.
 39.91 Set a sandstone 18x12x6 ins., 12 ins in
 the ground, for 1/4 sec. cor., marked 1/4 in.
 N face; dug pits 18x18x12 ins. E and W
 of stone 5 1/2 ft dist; and raised a
 mound of earth 1 1/2 ft high h, 3 1/2 ft
 base alongside.
 54.80 Bitter cactus (dry) bears S 20° W
 56.10 Ridge bears N.
 59.10 Wash in gulch bears S.E.; ascend steep
 slope to.
 79.81 The cor to secs. 11, 12, 13 and 14.
 Land mountainous; soil stony, 4th rate.
 Heavy scrub cedar timber on 17.80 chs.
 Mountainous on 79.81 chs.

No 0001 W bet. secs. 11 and 12

Va 14° 45' E

- Descend over steep stony slope.
 19.00 Foot of mountain, 300 ft below sec. cor.
 couler bears S 80° E
 29.00 couler bears E
 32.00 Foot of steep ascent
 40.00 It is impracticable to set a stone in
 the ground, therefore set a sandstone
 20x14x8 ins, in a mound of stone 1 1/2 ft
 high 3 ft base, for 1/4 sec. cor., marked
 1/4 in W face. Pits imp.
 50.00 Top of steep ascent 400 ft above bottom;
 enter heavy scrub cedar timber; ascend
 gradually.
 55.00 Top of mountain
 60.00 Leave cedar timber
 78.20 Descend over E slope of mountain to
 set a sandstone 18x12x6 ins., 12 ins. in the
 ground for cor to secs. 1, 2, 11 and 12.

Subdivision of 919 S. R. 25 E. D. L. M. W.

marked with 5 notches on S, and 1 notch on E edge; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside Pits imp.
Land mountainous; soil stony, 4th rate.
Heavy scrub cedar timber on 10.00 chs.
Mountainous on 80.00 chs.

July 14th, 1894

I begin on S bdy of 9th p at the cor. to secs. 2, 3, 34 and 35, as hereinbefore described
Thence I run N $^{\circ}0'W$ bet. secs. 34 and 35
Va 10 $^{\circ}00'E$

- | | |
|-------|---|
| 31.20 | Couler bears $080^{\circ}W$; ascend |
| 35.00 | Cutcrop of coal |
| 37.00 | Ridge 6 $\frac{1}{2}$ ft high, bears E |
| 40.00 | It is impracticable to set a stone in the ground, I therefore set a sandstone 18x6x5 ins. in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face. Pits imp. No bearing trees available.
Enter heavy scrub cedar timber. |
| 51.20 | Wash in Gulch 30 ft deep bears W. |
| 69.00 | Couler bears W. |
| 78.60 | Couler bears W |
| 80.00 | It is impracticable to set a stone in the ground, I therefore set a sandstone 14x8x6 ins. in a mound of stone, $1\frac{1}{2}$ ft high, 2 ft base, for cor to secs. 26, 27, 34 and 35, marked with 1 notch on S, and 2 notches on E edge. Pits imp. No bearing trees available.
Sand, rolling and broken, along W slope of mountain; soil sandy and stony 4 th rate.
Heavy scrub cedar timber on 10.00 chs. |

E on a random line bet. secs. 26 and 35

Va 10 $^{\circ}00'E$

- | | |
|-------|---|
| 40.00 | Set a temporary $\frac{1}{4}$ sec. cor. |
| 79.97 | Intersect N and S line. 2 lots of cor to secs. 25, 26, 35 and 36. |

Subdivision of T. 19 S. R. 25 E. S.L. M.

	Thence I am, # 89059' W on a true line bet. secs. 26 and 35 Va 15° 00' E
9.00	Coulter bears S 30° E
24.00	Coulter bears S. E.
25.60	Dense coulter bears from S 80° W
34.40	Coulter bears S. E.
35.00	Top of steep ascent
39.99	It is impracticable to set a stone in the ground, I therefore set a sandstone 14x10x8 ins., in a mound of stone 1½ ft high, 2 ft base, for ¼ sec. cor. marked ¼ on N face. Pits imp.
52.50	Top of steep ascent; enter heavy scrub cedar timber
60.50	Top of mountain, 400 ft above bottom descend gradual slope
76.00	Coulter bears S 60° W
79.97	The cor to secs. 26, 27, 34 and 35 ¹⁴⁹¹ ^{35.70} Land mountainous and level; soil stony 4th rate. Heavy scrub cedar timber on 27.47 chs. Mountainous on 44.97 chs.

W 0° 01' W bet. aecs. 26 and 27

Va 15° 00' E

	Through heavy scrub cedar timber.
13.40	Top of stony hill 50 ft high bears E.
16.00	Coulter bears S.W.
25.00	Coulter bears W.
40.00	Cut cross at exact cor point with ¼ on a sandstone ledge, for ¼ sec. cor and raised a mound of stone 1½ ft high 2 ft base alongside.
40.40	Coulter bears W.
42.60	Top of ridge 30 ft high bears E and W
58.40	Coulter bears W.
65.30	Coulter bears W.
75.30	Wash in gulch 30 ft deep bears S.W.
80.00	Set a sandstone 16x8x7 ins. 10 ins in the ground for cor. to aecs. 22, 23, 26 and 27

Subdivision of T. 19 S. R. 25 E. I. S. M.

marked with 2 notches on P, and 2 notches on E edge; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base along side. Pds imp. Sand rolling and broken, soil stony 4th rate.

Heavy scrub cedar timber on 80.00 chs

N $89^{\circ}59' E$ on a random line bet secs. 23 and 26

Va $14^{\circ}50' E$

40.00 Set a temporary $\frac{1}{4}$ sec. cor.

80.00 Intersect N and S line 100 ft N of cor. to secs. 23, 24, 25 and 26.

Thence N $89^{\circ}55' W$ on a true line bet. secs. 23 and 26

Va $14^{\circ}50' E$

descending gradually through heavy scrub cedar timber.

40.00 Set a sandstone $15 \times 11 \times 4$ ins. 10 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. No bearing trees available.

47.70 Coule bears S. W.

- 80.00 The cor. to secs. 22, 23, 26 and 27.

Sand gradually sloping to W. Soil, stony, 4th rate.

Heavy scrub cedar timber on 80.00 chs.

N $0^{\circ}1' W$ bet. secs. 22 and 23

Va $14^{\circ}50' E$

Through heavy scrub cedar timber

9.30 Wash in gulch 40 ft deep bears W.

11.50 Wash in gulch 30 ft deep bears S.W.

21.20 Descend.

34.00 Wash in gulch 100 ft deep bears W.

37.00 Point of ridge bears E

29.00 Head of gulch, bears S.W.

40.00 It is impracticable to set a stone in the ground, I therefore set a sandstone $16 \times 12 \times 6$ ins in a mound of stone $1\frac{1}{2}$ ft

Subdivision of T. 19 S. R. 25 E. D. & W.

	high, 2 ft base, for $\frac{1}{4}$ acre. cor., marbled $\frac{1}{4}$ on W face. Pits imp. No bearing trees available.
52.40	Descend.
64.00	Wash in gulch bears S.W.
70.00	Ridge bears S.W.
73.40	Wash in gulch 50 ft deep bears S.W.
80.00	Set a sandstone 20x10x5 ins, 10 ins. in the ground, for cor. to secs. 14, 15, 22 and 23, marbled with 3 notches on N and 2 notches on E edge; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp. No bearing trees available. Land mountainous; soil, stony 4 th rate.
	Heavy scrub cedar timber on 80.00 acs.
<hr/>	
	189055' E on a random line bet. secs. 14 and 23
	Va 14050' E
40.00	Set a temporary $\frac{1}{4}$ acre. cor.
80.06	Intersect N and O line 6 1/2 ls N of cor. to secs. 13, 14, 23 and 24. Thence down, W 89° 52' W on a tree line bet. secs. 14 and 23
	Va 14050' E
	Ascend
5.00	Ridge bears N; descend over broken ground, along N slope of mountain to foot of mountain; ascend.
32.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 18x15x3 ins, in a mound of stone, $1\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ acre. cor., marbled $\frac{1}{4}$ on N face. Pits imp.
47.30	Top of steep ascent 350 ft above bottom; enter heavy scrub cedar timber.
65.20	Head of gulch 30 ft deep bears S.
73.80	Head of gulch 40 ft deep bears S.W.
80.06	On the cor. to secs. 14, 15, 22 and 23. Land mountainous; soil, stony 4 th rate.

Subdivision of T. 19 S. R. 25 E. D. L. N. W.

Heavy scrub cedar timber on 32.70 cha
Mountainous on 80.06 chs.

N $0^{\circ}0'W$ bet secs. 14 and 15
Ra $14^{\circ}5'8''E$

Through heavy scrub cedar timber.
Ridge bears N.E.

3.00 Wash in gulch 30 ft deep, bears S.W.

20.00 Leave cedar-timber; enter dense artemesia undergrowth

36.00 Coulter bears S.W.

40.00 Set a sandstone 18x12x 6 ins., 12 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pit 18x18x 12 ins, N and S of stone 5 $\frac{1}{2}$ ft dist and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base along side

75.50 Coulter bears W.

- 80.00 It is impracticable to set a stone in the ground, I therefore set a sandstone 16x10x4 ins., in a mound of stone, 1 $\frac{1}{2}$ ft high, 2 ft base, for cor to secs. 10, 11, 14 and 15, marked with 4 notches on N and 3 notches on E edge. Pit imp.
No bearing trees available

Land, rolling; soil, sandy and stony & wet and dry late.

Heavy scrub cedar timber, or dense artemesia undergrowth on 80.00 chs.

July 16th 1894

N $89^{\circ}52'E$ on a random line bet. secs.
11 and 14

Ra $15^{\circ}00'E$

40.00 Set a temporary $\frac{1}{4}$ sec. cor.

Intersect N and S line 9 ft to S of cor to secs 11, 12, 13 and 14.

Thence I run, N $89^{\circ}56'W$ on a true line bet. secs. 11 and 14

Ra $14^{\circ}55'E$

descend along N slope of mountain

Subdivision of 9.190. R. 25 E. D.C.W.

	through heavy scrub cedar timber to
24.00	ascend.
32.30	Top of mountain bears N 30° W descend gradually
40.05	Cut a cross at exact cor. point, with $\frac{1}{4}$ on a sandstone ledge, for $\frac{1}{4}$ sec cor; raised a mound of stone, $1\frac{1}{2}$ ft high, 2 ft base alongside Pits imp. No bearing trees available.
51.00	Leave cedar timber, enter dense artemesia undergrowth.
76.00	Enter heavy scrub cedar timber; leave ar. growth.
80.10	The cor. to secs. 10, 11, 14 and 15. Land, mountainous and rolling descending to W. Soil sandy and stony 3^{rd} and 4^{th} rate. Heavy scrub cedar timber or dense artemesia undergrowth on 80.10 chs. Mountainous on 32.30 chs.
	No 001' W bet secs 10 and 11 Va 15° 00' E
	Through dense artemesia undergrowth over slightly rolling land.
40.00	It is impracticable to set a stone in the ground, therefore set a sandstone $16 \times 6 \times 9$ ins, in a mound of stone, $1\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on W face. Pits imp.
80.00	Set a sandstone $18 \times 10 \times 3$ ins, 12 ins in the ground for cor to secs. 2, 3, 10 and 11, marked with 5 notches on S, and 2 notches on E edge; raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside. Pits imp. Land rolling and level; soil, sandy loam 2^{nd} and 3^{rd} rate. A few cedar trees along line. dense artemesia undergrowth on 80.00 chs.

Subdivision of T. 19 D. R. 25 E. D.C.W.

	D 89° 56' E on a random line bet. secs. 2 and 11.
	Va 140° 56' E
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
79.82	Intersect W and S line, 7 1/2 ft N of cor to secs 1, 2, 11 and 12. Thence I run, N 89° 53' W on a true line bet. secs. 2 and 11.
	Va 140° 56' E
0.80	Top of mountain; descend
9.00	Enter heavy scrub cedar timber
13.80	Coulter bears N.W.
21.00	Coulter bears N.; ascend.
28.00	Ridge 60 ft high, bears N.W. Leave cedar timber, enter dense artemesia undergrowth.
39.91	Set a sandstone 20 x 7 x 5 ins, 15 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; raised a mound of stone 1 1/2 ft high, 2 ft face alongside. Pits imp. coulter bears N
44.60	Top of low ridge bears W and S.E.; descend to.
53.00	Top of low ridge bears W and S.E.; descend to.
79.82	The cor. to secs 2, 3, 10 and 11. Sand, mountainous; soil, stony 3rd and 4th rate. Heavy scrub cedar timber or dense artemesia undergrowth on 70.82 chs. Mountainous on 79.82 chs.

From the cor to secs. 1, 2, 11 and 12 I run
N 89° 49' E on a random line bet. secs 1
and 12

	Va 140° 54' E
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
79.77	Intersect E. bdy. of 7 p. at the cor to secs. 1, 6, 7 and 12 Thence I run, D 89° 49' W on a true line bet. secs. 1 and 12
	Va 140° 54' E
	Through dense artemesia undergrowth

Subdivision of T 19 S. R. 25 E. D. L. M.

- 0.60 Bitter crust 20 ft wide (dry) bears from N.W. to S.W.
- 16.00 Top of bank 10 ft high bears N.E. and S.E.
- 35.00 Foot of mountain; ascend. Leave dense undergrowth
- 39.89 It is impracticable to set a stone in the ground, I therefore set a sandstone 16x12x5 ins, in a mound of stone 1 $\frac{1}{2}$ ft high 2 ft base, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face. Pits imp.
- 42.00 Point of ridge 100 ft high bears N.
- 57.20 Top of ledge 20 ft high bears S.
- 79.77 The cor to secs. 1, 2, 11 and 12.
- Land mountainous and broken; soil stony 4th rate and clayey 3rd rate.
- No timber
- Dense artemesia undergrowth on 35.00 chs.
- Mountainous on 44.77 chs.

N 0° 0' W on a random line bet secs. 1 and 2

Va 14° 50' E

- 40.00 Set a temporary $\frac{1}{4}$ sec. cor.
- 80.17 Intersect N bdy of $\frac{1}{4}$ sec 2111/2 ft E of cor to secs. 1, 2, 30 and 36
- Thence N 0° 10' E on a true line bet. secs 1 and 2

Va 14° 50' E

Over nearly level ground, through dense artemesia undergrowth.

- 5.20 Coule bears W.C.
- 16.00 Foot of mountain bears N.W.
- 26.80 Ridge 100 ft high, bears S.W.
- 29.20 Wash in gulch 100 ft deep bears N.E. Enter heavy scrub cedar timber.
- 40.17 Set a sandstone 15x12x4 ins 10 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face, raised a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base along sides. No bearing trees available.

Subdivision of T 19 S. R 25 E D. L. M.

64.70	Top of mountain 300 ft above sec. cor. bears W.
69.00	Top of mountain bears N 20° W; leave cedar timber, descend to.
80.17	The cor to secs. 1, 2, 11 and 12. Land mountainous and level; soil stony 4 th rate and sandy 3 rd rate. Heavy scrub cedar timber or dense artemesia undergrowth on 69.00 chs. Mountainous on 64.17 chs.
	From the cor to secs. 2, 3, 10 and 11, turn W 00° 0' W on a random line bet secs. 2 and 3
	Va 140055'E
40.00	Set a temporary 1/4 sec. cor.
80.00	Intersect N bdy of Tp. 27 1/4 Ms E of cor to secs 2, 3, 34 and 35. Thence turn N 00° 18' E on a true line bet secs. 2 and 3
	Va 140055'E
	descend through dense artemesia undergrowth.
2.00	Couler bears N 30° E.
2000	Couler bears E; ascend
38.80	Couler bears N 30° E
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 16x10x3 ins, in a mound of stone 1 1/2 ft high, 2 ft base for 1/4 sec. cor., marked N 00° W face. Pts impracticable. No bearing trees available.
	Enter heavy scrub cedar timber.
66.00	Leave scrub cedar timber
80.00	The cor to secs. 2, 3, 10 and 11 Land rolling; soil sandy 3 rd rate. Heavy scrub cedar timber or dense artemesia undergrowth on 80.00 chs.
	July 17 th 1894

I begin on the S bdy of Tp at the cor to
as hereinbefore described
secs. 3, 4, 33 and 34. Thence I run,

Subdivision of T. 19 S. R. 25 E. D. C. M.

	N 0°0' W bet. secs. 33 and 34 Va 15°0' E
3.00	Over level ground, through dense artemesia undergrowth.
10.00	Westwater creek (dry) 60 ft wide, 10 ft deep bears S. 60° E
15.50	Foot of hill bears W and N 10° E, ascend along E slope
20.00	Descend along E slope
40.00	Foot of hill. It is impracticable to set a stone in the ground, I therefore set a sandstone 24 x 8 x 5 ins., in a mound of stone 1 1/2 ft high 2 ft base, for 1/4 sec. cor., marked 1/4 on W face. Pits imp.
45.50	Coulee bears S 10° E
49.50	Coulee bears from N. E.
56.00	Foot of hill, ascend
63.00	Top of hill 70 ft high
80.00	Set a sandstone 10 x 4 x 3 ins., 10 ins in the ground for cor to secs. 27, 28, 33 and 34 marked with 1 notch on S and 3 notches on E edge, raised a mound of stone 1 1/2 ft high, 2 ft base along side. Pits imp. Sand broken; soil sandy and stony, 3 rd and 4 th rate, except bottom land along Westwater creek which alluvial 2 nd rate Not timber Dense artemesia undergrowth on 80.00 chs.

	E on a random line bet. secs. 27 and 34 Va. 15°0' E
40.00	Set a temporary 1/4 sec. cor., intersect N and S line 7 1/2 ft of cor to secs. 26, 27, 33 and 35.
80.00	Thence Nnn, D 89°57' W on a true line bet. secs. 27 and 34 Va 15°0' E
	descend W slope of mountain, through heavy scrub cedar timber.

Subdivision of T. 19 S. R. 25 E. D. L. M.

22.00	Leave cedar timber.
40.00	Set a sandstone $20 \times 10 \times 8$ ins. 15 ins in the ground, for $\frac{1}{4}$ acre. cor. marked $\frac{1}{4}$ on N face; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base along sides. Pits imp. No bearing trees available.
42.00	Enter heavy scrub cedar timber
60.00	Leave cedar timber; enter dense artemesia undergrowth.
64.00	Foot of mountain, 250 ft below sec. cor.
64.10	Coule' bears S ascend.
70.00	Ridge 80 ft high descend descend to the cor. to secs. 27, 28, 33 and 34.
80.00	Land mountainous; soil, stony, 4 th rate. Heavy scrub cedar timber or dense artemesia undergrowth on 60.00 chs. Mountainous on 80.00 chs.

N $0^{\circ} 0' W$ bet secs. 27 and 28

W $15^{\circ} 0' E$

19.30	Through dense artemesia undergrowth Enter coule' bears $0^{\circ} 10' W$
24.00	Leave same coule' bears from $W 10' E$
40.00	Set a sandstone $22 \times 7 \times 5$ ins, 16 ins in the ground, for cor. to secs. 27, 28, 33 and 34 marked $\frac{1}{4}$ on W face; dug pits $18 \times 18 \times 12$ ins, N and S of stone, $5\frac{1}{2}$ ft dist. and raised a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base along sides
60.00	Enter coule' bears $20^{\circ} E$ from N
68.00	Leave coule' bears from $N 20^{\circ} W$.
80.00	Set a sandstone $20 \times 12 \times 5$ ins, 15 ins in the ground, for cor. to secs. 21, 22, 27 and 28 marked with 2 notches on S and 3 notches on E edge; dug pits $18 \times 18 \times 12$ ins, in each sec. $5\frac{1}{2}$ ft dist. and raised a mound of earth 2 ft high $4\frac{1}{2}$ ft base along sides. Land smooth, gradually ascending; soil clayey 3 rd rate. Not timber. Dense artemesia undergrowth on 80.00 chs.

Subdivision of T. 19 S. R. 25 E. S. L. M.

W $89^{\circ}57' E$ on a random line bet. secs. 22 and 27

N a $15^{\circ}02' E$

40.00 Set a temporary $\frac{1}{4}$ acre cor.
Intersect N and S lines 12 ft to P of cor to
secs. 22, 23, 26 and 27.
Hence I run, S $89^{\circ}52' W$ on a true line
bet. secs. 22 and 27

N a $15^{\circ}02' E$

descend through heavy scrub cedar
timber

12.00 Head of gulch bears $2080^{\circ} W$, descend
along N slope of hill
40.00 It is impracticable to set a stone in
the ground, I therefore set a sandstone
 24×15 ins. in a mound of stone $1\frac{1}{2}$ ft
high h. 2 ft base, for $\frac{1}{4}$ acre cor, marked
 $\frac{1}{4}$ on N face. Pits imp. No bearing trees
available.
59.00 Wash in gulch 400 ft wide 25 ft deep
bears S.
64.00 Ridge 40 ft high bears N and S.
72.00 Leave cedar timber; enter dense
artemesia undergrowth.
80.00 The cor to secs. 21, 22, 27 and 28.
Lands, mountainous and rolling;
soil, stony and clayey 4^{th} and 3^{rd} rate.
Heavy scrub cedar timber or dense
artemesia undergrowth on 80.00 chs.
Mountainous on 64.00 chs.

N $0^{\circ}02' W$ bet secs. 21 and 22

N a $15^{\circ}00' E$

Through dense artemesia undergrowth
over nearly level ground

30.00 Bend in coulee 8 ft wide 5 ft deep bears
from $N 20^{\circ} W$ to $S 20^{\circ} W$
40.00 Set a sandstone, $20 \times 15 \times 5$ ins., 15 ins in
the ground, for $\frac{1}{4}$ acre cor., marked
 $\frac{1}{4}$ on W face; dug pits $18 \times 18 \times 12$ ins N
and S of stone, $5\frac{1}{2}$ ft dirt, and raised a

Subdivision of T. 19 S. R. 25 E. D. S. M.

	mound of earth $1\frac{1}{2}$ ft high. $3\frac{1}{2}$ ft base alongside.
42.20	Couler' bears $\theta 2^{\circ} W$
51.00	Couler' bears $\theta . E.$
79.60	Couler' bears $\theta . W.$
80.00	Set a sandstone, $22 \times 10 \times 4$ ins, 16 ins in the ground for cor. to secs. 15, 16, 21 and 22, marked with 3 notches on N and 3 notches on E edge; dug pits $18 \times 18 \times 12$ ins, in each sec. $5\frac{1}{2}$ ft dist and raised a mound of earth $2\frac{1}{2}$ ft high, $4\frac{1}{2}$ ft base alongside.
	Sand, smooth, gradually ascending; soil clayey 3° north.
	No timber.
	Dense <i>artemesia</i> undergrowth on 8000 chs.

	N 89°52' E on a sandstone line bet. secs.
	15 and 22
	$\theta a 140^{\circ} 58' E$
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.06	Intersect N and O line 12 ins N of cor to secs. 14, 15, 22 and 23 Thence $\theta 89^{\circ} 57' W$ on a tree line bet. secs.
	15 and 22
	$\theta a 140^{\circ} 58' E$
	Descend through heavy scrub cedar timber.
30.00	Wash in gulch 50 ft deep bears from $N 70^{\circ} E$ to S. W.
34.00	Ridge bears N.E.; descend.
40.00	It is impracticable to set a stone in the ground; I therefore set a sandstone $16 \times 10 \times 4$ ins, in a mound of stone $1\frac{1}{2}$ ft high 2 ft base for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face. Pits imp. No bearing trees available.
52.00	Leave cedar timber; enter dense <i>artemesia</i> undergrowth.
6700	Foot of mountain.

Subdivision of T. 19 R. 25 E. S. L. M.

79.75	Couler bears N.E.
80.06	The cor. to secs. 15, 16, 21 and 22 Land mountainous and level; soil stony 4 th rate and clayey 3 rd rate. Indications of coal along line. Heavy scrub cedar timber or dense artemesia undergrowth on 80.06 chs. Mountainous on 67.00 chs.
	N 0°02' W bet. secs. 15 and 16 Va 15°00' E
22.00	Through dense artemesia undergrowth Couler bears S 20°W.
40.00	Set a sandstone 18x10x3 ins, 12 ins in the ground, for 1/4 sec. cor., marked 1/4 on W face; dug pits 18x18x12 ins N and S. of stone, 5 1/2 ft dist., and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside.
51.30	Couler bears S 30°E
61.00	Couler bears from W.E.
71.30	Couler bears S 20°W.
80.00	Set a sandstone 20x6x5 ins, 15 ins in the ground, for cor. to secs. 9, 10, 15 and 16, marked with 4 notches on S, and 3 notches on E edge; dug pits 18x18x12 ins, in each sec. 5 1/2 ft dist., and raised a mound of earth 2 ft high, 4 1/2 ft base alongside. Land broken; soil, clayey 3 rd rate. No timber. Dense artemesia undergrowth on 80.00 chs.
	N 89°57' E on a random line bet. secs. 10 and 15 Va 15°06' E
40.00	Set a temporary 1/4 sec. cor.
80.04	Intersect N and S line 24 1/2 ft S of cor. to secs 10, 11, 14 and 15 Thence I run, S 89°47' W on a true line

Subdivision of T. 19 S. R. 25 E. N.L.W.

	bet. secs 10 and 15 Va $15^{\circ} 06' E$ descend through h. heavy scrub cedar timber
40.02	Set a sandstone $20 \times 10 \times 4$ ins 15 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base along side. Pits imp. No bearing trees available. Coulter bears S.W.
41.30	Leave cedar timber; enter dense artemesia undergrowth. Foot of mountain.
66.00	Leave cedar timber; enter dense artemesia undergrowth. Foot of mountain.
78.20	Coulter 40 ft wide, 10 ft deep bears S.
80.04	The cor to secs. 9, 10, 15 and 16. Land mountainous and level; soil stony 4 th rate and clayey 3 rd rate Heavy scrub cedar timber or dense artemesia undergrowth on 80.04 chs. Mountainous on 66.00 chs.
	$N 0^{\circ} 02' W$ bet secs 9 and 10 $Va 15^{\circ} 04' E$ Through dense artemesia undergrowth.
11.50	Coulter bears S.E.
21.50	Coulter 10 ft wide 4 ft deep bears S.E.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone $18 \times 9 \times 4$ ins. in a mound of stone, $1\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face. Pits imp.
80.00	Set a sandstone $16 \times 10 \times 6$ ins, 10 ins in the ground for cor. to secs. 3, 4, 9 and 10, marked with 5 notches on S. and 3 notches on E edge; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base along side. Pits imp. Land, smooth, gradually ascending; soil clayey, 3 rd rate; on N $\frac{1}{2}$ stony 4 th rate. No timber dense artemesia undergrowth on

Subdivision of T. 19 S. R. 25 E. D.L.W.

80.00 chs.

$N 89^{\circ} 47' E$ on a random line bet secs. 3 and 10

Va $15^{\circ} 04' E$

- 40.00 Set a temporary $\frac{1}{4}$ sec. cor.
 80.24 Intersect N and S lines 8 $\frac{1}{4}$ ft off cor. to
 secs. 2, 3, 10 and 11.
 Thence down, $D 89^{\circ} 47' W$ on a true line
 bet. secs. 3 and 10
- Va $15^{\circ} 00' E$
 Through dense artemesia undergrowth.
 Coulter bears $N 30^{\circ} W$; ascend
 Top of low ridge bears N.
 40.12 Set a limestone 15x8x8 ins., 10 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on
 N face; dug pits 18x18x12 ins E and W of
 stone. 5 $\frac{1}{2}$ ft dist., and raised a mound
 of earth $1\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base alongside.
 Coulter bears D; ascend
 66.00 Ridge bears N and D.
 80.24 The cor. to secs. 3, 4, 9 and 10
 Land rolling; soil clayey 3rd rate.
 No timber.
 Dense artemesia undergrowth on
 over 80.24 chs.

$N 0^{\circ} 02' W$ on a random line bet secs 3 and 4

Va $15^{\circ} 04' E$

- 40.00 Set a temporary $\frac{1}{4}$ sec. cor.
 80.38 Intersect N line of township 25 $\frac{1}{4}$ ins E
 of cor. to secs. 3, 4, 33 and 34.
 Thence down, $D 0^{\circ} 13' E$ on a true line
 bet. secs. 3 and 4
- Va $15^{\circ} 04' E$
 Through dense artemesia under-
 growth; ascend.
 Ridge 75 ft above sec. cor.; descend.
 Set a sandstone 16x12x3 ins., 10 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on
 W face; raised a mound of stone $1\frac{1}{2}$ ft

Subdivision of T. 19 S. R. 25 E. A. L. M.

80.38	high, 2 ft base alongside Pitt imp. The cor. to secs. 3, 4, 9 and 10. Land hilly; soil clayey 3 rd rate. a few cedar trees along line. dense artemesia undergrowth on 80.38 chs.
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July 18th 1894

Obs. on Polaris at the cor to secs 9, 10, 15 and 16 At 8:35.5 P.M. mean local time July 18 th / 94 I drive a stake on line 4 chs. N. W. C. Polaris July 15 th $17^{\text{h}} 42.8^{\text{m}}$ ✓ Sub diff 2 days $\underline{7.8^{\text{m}}}$ ✓
W. C. Polaris July 17 th $17^{\text{h}} 35.0^{\text{m}}$ ✓
Sub. from time of obs July 17 th $32^{\text{h}} 30.5^{\text{m}}$ ✓
True angle of Polaris $15^{\text{h}} 00.5^{\text{m}}$ ✓
Sub from $\underline{23^{\text{h}} 56^{\text{m}}}$ ✓
True angle of Polaris $8^{\text{h}} 55.5^{\text{m}}$ ✓
As for lat $39^{\circ} 10' 9''$ E

At 6 A.M. July 19th the mag. bearing
of my line established last night is
N $13^{\circ} 57' W$

N end of needle $13^{\circ} 57' E$
Az $\underline{109^{\circ} E}$.
The sun is th Va. $15^{\circ} 06' E$

The mean declination is $15^{\circ} 03' E$,

I begin at the S bdy of the 9th at the cor to
secs. 4, 5, 32 and 33, as hereinbefore described.
Thence down, N $0^{\circ} 03' W$ bet secs 32 and
33

Va $15^{\circ} 05' E$

Through dense artemesia undergrowth.
Over level bottom.

- | | |
|-------|---|
| 4.40 | Coule 6 ft wide, 4 ft deep, bears E; foot of
hill have undergrowth |
| 14.00 | Top of hill 50 ft high; descend. |
| 19.60 | Gutch 30 ft deep bears E. |
| 23.00 | Ridge bears W. |
| 30.00 | Foot of hill bears N.W.; enter dense arti- |

Subdivision of D. 19 S. R 25 E. S. C. M.

	mesia undergrowth.
40.00	Set a sandstone, 15x11x3 ins., 10 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins N and S of stone, 5 $\frac{1}{2}$ ft dist and raised a mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base alongside.
44.00	Westwater creek 80 ft wide 8 ft deep (dry) bears from N.W. to E.
66.00	Westwater creek 80 ft wide 10 ft deep (full) bears N 30° W.
78.00	Westwater creek bears S.E.
80.00	Set a sandstone 20x12x4 ins., 15 ins in the ground, for the cor. to secs. 28, 29, 32 and 33, marked with 1 notch on A, and 4 notches on B edge; dug pits 18x18x12 ins in each sec 5 $\frac{1}{2}$ ft dist and raised a mound of earth 2 ft high, 4 $\frac{1}{2}$ ft base alongside. Sand hilly; level along Westwater creek. Soil sandy and clayey 2 nd and 3 rd rate. No timber. Dense artemesia undergrowth on 54.40 chs.
	E on a random line bet. secs 28 and 33 Va 15° 05' E
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.00	Intersect N and S line 19 ft N of cor to secs. 27, 28, 33 and 34. Thence turn, N 89° 52' W on a true line bet secs. 28 and 33 Va 15° 05' E
	descend through dense artemesia undergrowth.
8.60	Couler 15 ft wide 4 ft deep bears S; ascend
20.70	Couler bears S.E.
40.00	Set a slate stone 22x10x3 ins., 17 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face, dug pits 18x18x12 ins. E and W of

Subdivision of T. 19 N. R. 25 E. D. L. M.

		stone, 5½ ft dia. and raised a mound of earth 1½ ft high, 3½ ft base alongside.
48.00	Ridge bears S.	
52.00	Head of gulch, bears N 60° W	
58.50	Ridge 100 ft high bears N.E.	
68.00	Foot of hill	
- 80.00	The cor. to secs. 28, 29, 32 and 33. Sand hilly; soil clayey, 3 rd rate, some 2 nd rate on Westwater cut bottom. No timber Dense artemesia undergrowth on 8000 chs.	
		N 0° 03' W bet aecs. 28 and 29 Va 15° 05' E
		Through dense artemesia undergrowth, over nearly level ground.
40.00	Foot of ridge, set a sandstone 20x12x5 ins 15 ins in the ground for ¼ sec. cor. marked ¼ on W face; dug pits 18x18x12 ins N and S of stone, 5½ ft dia. and raised a mound of earth 1½ ft high, 3½ ft base alongside.	
42.00	Point of ridge, 40 ft high, bears N.E.	
45.20	Wash in gulch 30 ft deep bears N 30° E	
57.00	Ridge 100 ft above ¼ sec. cor. bears N 60° W	
- 80.00	Set a sandstone 20x10x4 ins 15 ins in the ground, for cor. to secs. 20, 21, 28 and 29, marked with 2 notches on S, and 4 notches on E edge; dug pits 18x18x12 ins, in each sec. 5½ ft dia. and raised a mound of earth 2 ft high, 4½ ft base alongside. Sand, level and rolling; soil clayey, 2 nd and 3 rd rate. No timber. Dense artemesia undergrowth on 8000 chs.	
		N 89° 52' E on a random line bet. secs. 21 and 28 Va 15° 05' E
40.00	Set a temporary ¼ sec. cor.	
79.94	Intersect cor. to secs. 21, 22, 27 and 28 Thence down, N 89° 52' W on a true line bet aecs 21 and 28	

Subdivision of T. 19 S. R. 25 E. A. L. M.

Va 15°05' E

Through dense artemesia undergrowth.

- 2.80 Coulé 50 ft wide, 10 ft deep bears S.
35.00 Ridge 100 ft above cou. bears N and S.
39.97 Set a sandstone 18x8x4 ins., 12 ins in the ground, for 1/4 acre cor., marked 1/4 on N face; dug pits 18x18x12 ins E and W of stone, 5 1/2 ft dist, and raised a mound of earth 1 1/2 ft high, 3 1/2 ft base alongside.
Coulé bears N 20° W
79.94 The cor to secs. 20, 21, 28 and 29.
Land rolling and hilly; soil, clayey 3rd rate.
No timber.
Dense artemesia undergrowth on 79.94 chs.

N 0°3' W bet. secs. 20 and 21

Va 15°03' E

Through dense artemesia undergrowth, over rolling ground

- 6.00 Ridge bears W.E.
40.00 Set a sandstone 16x12x4 ins. 10 ins in the ground, for 1/4 sec. cor., marked 1/4 on W face; dug pits 18x18x12 ins. N and S of stone, 5 1/2 ft dist and raised a mound of earth 1 1/2 ft high, 3 1/2 ft base alongside.
Coulé bears S.W.
54.00 Ridge 30 ft high bears N.E. and S.W.
74.40 Coulé bears S 30° W.
80.00 Set a sandstone 20x10x3 ins., 15 ins in the ground, for cor to secs. 16, 17, 20 and 21, marked with 3 notches on S, and 4 notches on E edge; dug pits 18x18x12 ins, in each sec, 5 1/2 ft dist and raised a mound of earth 2 ft high, 4 1/2 ft base alongside.
Land broken and rolling; soil clayey 3rd rate. No timber.
Dense artemesia undergrowth on 80.00 chs.

N 89°52' E on a random line bet secs. 16 & 21

Va 15°03' E

Subdivision of T. 19 S. R 25 E. S. L. M.

40.00	Set a temporary $\frac{1}{4}$ sec. cor.
79.82	Intersect N and S line 6 miles N of cor. to secs. 15, 16, 21 and 22. Thence S line, $0^{\circ} 89' 55'' W$ on a line line bet. secs. 16 and 21 $N a 15^{\circ} 00' E$
3.50	Through dense artemesia undergrowth
6.80	Couler 50 ft wide 10 ft deep bears S.
25.00	Foot of ridge; ascend
3 9.91	Set a sandstone 18x7x4 ins 12 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins E and W of stone $5\frac{1}{2}$ ft dist. and raised a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base alongside. Ridge 150 ft above sec. cor. bears N. descend.
41.30	The cor. to secs. 16, 17, 20 and 21.
79.80	Land, hilly; soil clayey 3^{rd} rate. No timber Dense artemesia undergrowth on 79.80 chs.
<hr/>	
	$N 0^{\circ} 03' W$ bet secs 16 and 17
	$N a 15^{\circ} 00' E$
	Through dense artemesia under- growth, over rolling ground slightly ascending.
40.00	Point of ridge 30 ft high bears W. E. Set a sandstone 16x10x4 ins, 10 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins N and S of stone, $5\frac{1}{2}$ ft dist. and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside.
61.00	Couler bears S. W.
80.00	Set a sandstone 16x16x4 ins, 10 ins in the ground for cor. to secs. 8, 9, 16 and 17 marked with 4 notches on S, and 4 notches on E edge; dug pits 18x18x12 ins in each sec. $5\frac{1}{2}$ ft dist and raised a mound of earth 2 ft high $4\frac{1}{2}$ ft base alongside. Land rolling; soil clayey 3^{rd} rate.

Subdivision of T 19 S. R 25 E. D.L. 700.

No timber

Dense artemesia undergrowth on 80.00 cbs.

N 89° 55' E on a random line bet secs.
9 and 16

Va 15° 00' E

40.00 Set a temporary 1/4 sec. cor.

Intersect N and D line 1/16 N of cor. to
secs 9, 10, 15 and 16.

Thence S line, D 89° 55' W on a true line
bet. secs 9 and 16

Va 15° 00' E

Through dense artemesia undergrowth

2.10 Coulter bears S.E.

9.30 Coulter bears S.E.

24.10 Ridge 100 ft high bears N and S.

29.60 Wash in gulch bears S.W.

34.20 Ridge bears N

39.86 At a sandstone 14x10x8 ins 10 ins in the
ground for 1/4 sec. cor., marked 1/4 on
N face; dug pit 18x18x12 ins E and W
of stone, 5 1/2 ft dist and raised a mound
of earth 1 1/2 ft high, 3 1/2 ft base alongside.

63.00 Coulter bears S.W.

72.60 Coulter bears S.W.

79.72 The cor to. secs. 8, 9, 16 and 17.

Sand rolling; soil clayey 3rd rate.

No timber

Dense artemesia undergrowth on 79.72 cbs.

W 00° 3' W bet secs. 8 and 9

Va 15° 00' E

Through dense artemesia undergrowth

Wash in gulch 20 ft deep bears S.W.

Coulter bears S.W.

40.00 Set a sandstone 18x12x3 ins, 12 ins in the
ground for 1/4 sec. cor., marked 1/4 on W
face; dug pit 18x18x12 ins N and S of
stone, 5 1/2 ft dist, and raised a mound
of earth, 1 1/2 ft high, 3 1/2 ft base alongside.

Subdivision of T. 19. S R 25 E. D.L.W.

45.30	Coulees 20 ft wide 8 ft deep bears S.W.
79.90	Coulees bears S.W.
80.00	Set a sandstone 18x12x2 ins, 12 ins in the ground for cor. to secs. 4, 5, 8 and 9 marked with 5 notches on N, and 4 notches on E edge; dug pits 18x18x12 ins, in each sec. 5½ ft dia., and raised a mound of earth. 2 ft high, 4½ ft base alongside. Land rolling; soil clayey 3 rd rate. No timber. Dense artemesia undergrowth on 80.00 chs.
	N 89°05' E on a random line bet secs. 4 and 9
	Va 15°05' E
40.00	Set a temporary ¼ sec. cor.
79.74	Intersect W and N line 9 1/2 ins N of cor. to secs 3, 4, 9 and 10. Then set same S 89°05' W on a true line bet secs. 4 and 9
	Va 15°05' E
	Through dense artemesia undergrowth. Descend gradually to
10.00	Bottom of valley; ascend.
33.40	Ridge bears N.E. and S.W.
38.40	Head of coulei bears S.W.
39.87	Set a sandstone 18x4x6 ins, 12 ins in the ground, for ¼ sec. cor. marked ¼ on N face; dug pits 18x18x12 ins E and W of stone, 5½ ft dia., and raised a mound of earth 1½ ft high 3½ ft base alongside.
58.70	Wash in gulch 40 ft deep bears S.W.
69.00	Coulei bears S.W.
79.74	The cor. to secs 4, 5, 8 and 9 Land rolling; soil clayey, 3 rd rate. No timber Dense artemesia undergrowth on 79.74 chs.

Subdivision of T. 19 S. R. 25 E. P. L. M.

N $0^{\circ}0'3''W$ on a random line bet aces 4 and 5.

Va $15^{\circ}05' E$

- 4.000 Set a temporary $\frac{1}{4}$ acre. cor.
 8.030 Intersect N bdy of township 47th N E
 of cor to aces. 4, 5, 32 and 33.
 Thence down, $0^{\circ}0'2''E$ on a true line bet.
 aces. 4 and 5

Va $15^{\circ}10' E$

Through dense artemesia undergrowth
 descended

- 6.50 Wash in gulch 100 ft deep bears S.W.
 13.00 Top of hill; thence over nearly level
 ground.
 30.70 Wash in gulch 25 ft deep bears S.W.
 39.80 Wash in gulch 20 ft deep bears W.
 40.30 Set a slate stone $14 \times 10 \times 4$ ins, 10 ins in
 the ground, for $\frac{1}{4}$ acre. cor., marked $\frac{1}{4}$
 on W face; raised a mound of stone
 $1\frac{1}{2}$ ft high, 2 ft base alongside. Pd. imp.
 Couler bears $060^{\circ}W$
 60.80 Couler bears S.W.
 80.60 From cor to aces. 4, 5, 8 and 9.
 Land hilly and rolling; soil, clayey &^{3rd} rate.
 No timber.
 Dense artemesia undergrowth over
 80.30 chs.

July 19th, 1894

I set my instrument on the N bdy of
 the Tp over the cor to aces 5, 6, 31 and 32,
 as hereinbefore described
 in lat. $39^{\circ}07'N$ and make the following
 obs on the sun. July 20th 7 A. M.

sun's Alt. Hor angle right.

$27^{\circ}00'$ $84^{\circ}2'3''$

$27^{\circ}09'$ $84^{\circ}2'9''$

$27^{\circ}18'$ $84^{\circ}3'7''$

$27^{\circ}27'$ $84^{\circ}4'3''$

Dum $108^{\circ}54'1''$ Dum $338^{\circ}12'1''$

Mean $27^{\circ}13'30''$ Mean $84^{\circ}3'3''$

Ref $-150''$

$t = 27^{\circ}11'40''$

Subdivision of T. 19 S. R. 25 E. D. L. M. W.

	sun's decl July 20 th Sub. 2x28.3	20°38'03.5" ✓ <u>56.6</u> ✓
	Decl July 20 th 7 A.M., say, 20°37'05"; P.D. = 90° - 20°37' = 69°23'00",	
	h. log cos of L " " "	27°11'40" = 9.949127 ✓ <u>39°07'00"</u> = 9.889785 ✓
	2 D. =	135°41'40" 19.838912(a) ✓ 1/2(a) = 9.919456(b) ✓
	D log cos of D-P.D. " " "	67050'50" 1 = 9.576431 ✓ 1032'10" 1 = 9.999844 ✓ 19.576275 ✓
		1/2 = 9.788137 ✓
		Sub. (b) = <u>9.919456</u> ✓
	1/2 Z log cos of 42°21' 1 =	9.868681 ✓
	Z = 84°42' ✓	
	Ref line <u>84°33'</u>	
	Diff N 0°09'E is the bearing of my reference line. I turn off 09' left for the true meridian and find its magnetic bearing to be N 15°12'W The mean declination, then, is 15°07'E	

Thence I run, N 0°04'W bet secos 31 and 32
Va 15°12' E

Through dense artemesia undergrowth.
40.00 Set a sandstone 14x12x3 ins, 10 ins in
the ground, for 1/4 sec. cor., marked 1/4
on W face; dug pits 18x18x12 ins. Hand &
of stone, 5 1/2 ft dist and raised a mound
of earth 1 1/2 ft high, 3 1/2 ft base alongside.
The mag. variation has here decreased to
15°04'E

80.00 Set a sandstone 22x14x3 ins 16 ins in the
ground, for cor. to secos. 29, 30, 31 and 32,
marked with 1 notch on S, and 5 notches
on E edge; dug pits 18x18x12 ins in each sec.
5 1/2 ft dist. and raised a mound of earth
2 ft high, 4 1/2 ft base alongside.
Land nearly level; soil clayey & no note.
No timber

Subdivision of 9 190. R. 25 E. Pl. W.

Dense artemesia undergrowth on
80.00 chs.

On a random line bet. secs. 29 and 32
Va 15° 00' E

40.00 Set a temporary 1/4 sec. cor.

80.03 Intersect N and S line 10 ft to S of cor. to
secs. 28, 29, 32 and 33.

Thence I run, N 89° 56' W on a tree line
bet secs. 29 and 32

Va 15° 00' E

Through dense artemesia undergrowth
Over level ground.

8.50 Westwater creek, 50 ft wide, 10 ft deep (dry)
bears N 70° E

Foot of hill a sec. 32

Top of bank 20 ft high

40.01 Set a sandstone 10x12x4 ins., 10 ins in the
ground for 1/4 sec. cor., marked 1/4 on
one N face; dug pit 18x18x12 ins E and W of
stone, 5 ft dist. and raised a mound
of earth 1 1/2 ft high, 3 1/2 ft base alongside.
Corner bears N.E.

80.03 The cor. to secs. 29, 30, 31 and 32.

Sand level and rolling; soil clayey, 2nd
and 3rd rate.

No timber.

Dense artemesia undergrowth on 80.03 chs.

On a random line bet. secs. 30 and 31

Va 15° 00' E

40.00 Set a temporary 1/4 sec. cor.

79.26 Intersect W bdy of 7p 40 ft S of cor. to
secs. 25, 30, 31 and 36, which is a charred
post 13 ins square, firmly set, 2 ft above
ground marked with 5 notches on N,
and 1 notch on S edge.

Thence I run, N 89° 58' E on a tree line
bet secs. 30 and 31.

Va 15° 00' E

Through dense artemesia undergrowth.

Subdivision of 719 A. R. 25 E. D. L. M.

8.80	Ridge 30 ft high bears N and S.
39.20	Coule bears S.E.
39.26	Set a sandstone 22x16x3 ins, 16 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; dug pit 18x18x12 ins, & raised a mound of earth $5\frac{1}{2}$ ft dist. and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside. The cor. to secs. 29, 30, 31 and 32. Land rolling; soil clayey 3 rd rate. No timber. Dense artemesia undergrowth on 79.26 chs.
	$N 0^{\circ} 0' W$ bet. secs. 29 and 30 $N 15^{\circ} 00' E$
24.00	Through dense artemesia undergrowth
20.40	Coule 20 ft wide, 2 ft deep bears E
40.00	Set a sandstone 16x12x4 ins, 10 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pit 18x18x12 ins N and S of stone - $5\frac{1}{2}$ ft dist and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside.
45.00	Ridge bears W, there descend over broken ground.
58.50	Coule bears E
70.00	Foot of slope
79.50	Center of Westwater creek (dry) bears S.E.
80.00	The cor. to secs. 19, 20, 29 and 30. This cor. falls in the bed of Westwater creek; therefore set at $N 0^{\circ} 0' W$ 25 ft dist, on N bank of creek, a sandstone 18x14x4 ins 12 ins. in the ground for W.C. to cor. to secs 19, 20, 29 and 30, marked W.C., with 2 notches on N, 5 notches on E edge, raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside. Land rolling; soil clayey 3 rd rate. No timber. Dense artemesia undergrowth on 80.00 chs.

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Subdivision of T. 19 N. R. 25 E. D.L.W.

$N 89^{\circ} 56' E$ on a random line bet. secs.
20 and 29

Va $15^{\circ} 00' E$

- 40.00 Set a temporary $\frac{1}{4}$ sec. cor.
80.02 Intersect W and S line $11^{\circ} 46' N$ of cor to
secs. 20, 21, 28 and 29.
Thence turn, $N 89^{\circ} 59' W$ on a true line bet.
secs 20 and 29

Va $15^{\circ} 00' E$

- Through dense artemesia undergrowth
Ridge bears N and S.
Coulee bears S. . . .
Ridge 30 ft high bears S.W.
Set a post 3x3 ins 3 ft long with mortised
stone. 12 ins in the ground, for $\frac{1}{4}$ sec. cor
marked $\frac{1}{4} S$ on N face; dug pits 18x18x12
ins, E and W of post, 5 $\frac{1}{2}$ ft deep, and raised
a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft
base around post.
41.00 Coulee 10 ft wide, 6 ft deep bears $82^{\circ} E$; enter
level bottom.
80.02 Th. cor to secs. 19, 20, 29 and 30.
Sand, $E\frac{1}{2}$ rolling soil clayey, 3rd rate, W
1/2 level; soil sandy loam 2nd rate.
No timber.
Dense artemesia undergrowth on 8002 ch.

$N 89^{\circ} 58' W$ on a random line bet. secs
19 and 30

Va $14^{\circ} 52' E$

- 40.00 Set a temporary $\frac{1}{4}$ sec. cor.
79.30 Intersect W bdy of $\frac{1}{4}$ p $3^{\circ} 46' N$ of cor to secs.
19, 24, 25 and 30, which is a charred post,
firmly set in place, 4 ins square, 2 ft
above ground, mortised with 4 notches
on N, and 2 notches on S edge.
Thence turn, $89^{\circ} 59' E$ on a true line
bet. secs. 19 and 30

Va $14^{\circ} 52' E$

Through dense artemesia undergrowth
over broken ground slightly descending

Subdivision of T. 19 S. R. 25 E. Ad. W.

31.80	Couler bears N 30° E
39.85	Set a post 3 ins square, 3 ft long, with mortised stone, 12 ins in the ground for 1/4 sec. cor., mortised 1/4 D on W face; dug pits 18x18x12 ins, E and W of post, 5 1/2 ft dist. and raised a mound of earth 1 1/2 ft high 3 1/2 ft base around post.
46.90	Low ridge bears D; thence descend over broken ground
59.30	Couler bears W.E.
73.40	Bottom
75.90	Right bank of Westwater creek (dry) bears P 85° E
- 79.35	The cor to secs. 19, 20, 29 and 30. Land broken; soil clayey 3 rd rate. No timber Dense <i>Artemesia</i> undergrowth on 79.35 chs
10.00	N 0° 04' W bet. secs 19 and 20
30.00	Va 14055° E
32.40	Over level bottom through dense <i>Artemesia</i> and clayey growth Alkali Spring, 800 chs W in bed of Westwater Creek.
40.00	Leave level bottom Top of bench 30 ft high bears D 30 E; thence over broken ground.
80.00	Set a sandstone 16x12x4 ins 10 ins in the ground for cor to secs. 17, 18, 19 and 20, mortised with 3 notches on D, and 5 notches on Edge; dug pits 18x18x12 ins, in each sec. 5 1/2 ft dist. and raised a mound of earth 1 1/2 ft high, 3 1/2 ft base along-side.
	Land level and broken; soil sandy and clayey 2 nd and 3 rd rate. No timber.

Subdivision of T. 19 N. R. 25 E. D. C. M.

Dense artemesia undergrowth on .8000 chs.

$N 89^{\circ} 59' E$ on a random line bet secs 17 and 20
 $\Delta a 14^{\circ} 56' E$

40.00 Set a temporary $\frac{1}{4}$ acre cor.

80.06 Intersect W and S line $411\frac{1}{2} N$ of cor to
secs 16, 17, 20 and 21.

Thence I run, $W 89^{\circ} 57' W$, on a true line
bet secs 17 and 20.

$\Delta a 14^{\circ} 56' E$

Through dense artemesia undergrowth
Coulter bears D.

12.00 Top of bench; thence over nearly level
ground.

40.03 Set a post 3 ins square, 3 ft long, with
marked stone 12 ins in the ground,
for $\frac{1}{4}$ acre cor. marked $\frac{1}{4} D$ on N face;
dig pits $18 \times 18 \times 12$ ins. E and W of post
 $3\frac{1}{2}$ ft dist and raised a mound of
earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base around
post.

41.80 Coulter bears D.W.

13.60 Top of bench 30 ft high bears N and D.W.

74.00 Top of bench 30 ft high bears N.W. and D.E.

77.80 Coulter bears P28° E

80.06 The cor to secs. 17, 18, 19 and 20.

Land rolling; soil clayey, 3" mato.

No timber

Dense artemesia undergrowth on
80.06 chs.

$N 89^{\circ} 59' W$ on a random line bet secs.
18 and 19.

$\Delta a 14^{\circ} 56' E$

40.00 Set a temporary $\frac{1}{4}$ acre cor.

79.48 Intersect W bdy of $\frac{1}{4}$ p 39 $1\frac{1}{2} N$ of cor to
secs 13, 18, 19 and 24, which is a sandstone,
firmly set in the ground, $9 \times 9 \times 4$ ins above
ground, marked with 3 notches on N
and S edges.

Thence I run, $P 89^{\circ} 42' E$, on a true line bet.

Subdivision of 919 D.R. 25 E. D.C.M.

secs 18 and 19.

N α 14° 56' E

Descend through dense Artemesia undergrowth.

28.20 Couler bears S.E.

39.48 Set a post 3 ins. square, 3 ft long, with mortared stone, 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., mortared $\frac{1}{4}$ ft on N face; dug pits 18x18x12 ins E and W of post, 5 $\frac{1}{2}$ ft dist, and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base around post.

40.30 Top of bunch, bears N.W. and S.E.; descend to enter level bottom.

41.50 Westwater creek (dry) bears S.

66.50 Leave creek bottom; ascend over broken ground.

71.00 Ridge 40 ft high bears N; descend over broken ground to

- 79.48 The cor to secs. 17, 18, 19 and 20.

Sand level and broken; soil clayey, 2nd and 3rd rate.

No timber.

Dense Artemesia undergrowth on 79.48 chs.

N 0° 0' W. bet secs 17 and 18

N α 15° 00' E

Through dense Artemesia undergrowth.

Couler bears S.E.

2.00 Set a sandstone, 15x10x4 ins. 10 ins in the ground, for $\frac{1}{4}$ sec cor, mortared $\frac{1}{4}$ on W face; dug pits 18x18x12 ins N and S of stone, 5 $\frac{1}{2}$ ft dist and raised a mound of earth, 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base alongside.

- 40.00 Set a sandstone 16x14x4 ins. 10 ins in the ground, for cor to secs. 7, 8, 17 and 18, mortared with 4 notches on S, and 5 notches on E edge; dug pits 18x18x12 ins in each sec., 5 $\frac{1}{2}$ ft dist and raised a mound of earth 1 $\frac{1}{2}$ ft high, 4 $\frac{1}{2}$ ft base alongside.

Sand, rolling; soil clayey 3rd rate.

200

565

Subdivision of T. 19 S. R. 25 E. S. L. M.

No timber.

Dense artemesia undergrowth on 8000
chs.

July 20th 1894

$\theta 89^{\circ} 57' E$ on a random line bet. secs.
8 and 17

Va $15^{\circ} 05' E$

40.00 Set a temporary $\frac{1}{4}$ sec. cor.

80.05 Intersect N and S line 18 ft N of cor to
secs 8, 9, 16 and 17

Thence down, $\theta 89^{\circ} 55' W$ on a true line
bet. secs. 8 and 17

Va $15^{\circ} 05' E$

Through dense artemesia undergrowth

Coule 40 ft wide 5 ft deep bears $\theta 20^{\circ} W$

Coule 30 ft wide, 10 ft deep bears N.

40.02 Set a post 3x3 ins, 3 ft long, with marshled
stone, 12 ins in the ground, for $\frac{1}{4}$ sec. cor.
marshed $\frac{1}{4}$ ft on N face; dug pits 18x18x12 ins
E and W of post, 5 $\frac{1}{2}$ ft dist. and raised a
mound of earth $1\frac{1}{2}$ ft high, $6\frac{1}{2}$ ft base
around post.

Coule 60 ft wide 10 ft deep bears S.

Coule bears N.

80.05 The cor to secs. 7, 8, 17 and 18.

Sand, broken; soil clayey, 3rd and 4th
rate.

No timber.

Dense artemesia undergrowth on
80.00 chs.

$\theta 89^{\circ} 42' W$ on a random line bet. secs.

7 and 18

Va $15^{\circ} 05' E$

40.00 Set a temporary $\frac{1}{4}$ sec. cor.

79.78 Intersect W bdy of Tp. 12 line N of cor
to secs. 7, 12, 13 and 18, which is a post,
firmly set in the ground, 4 ins square,
2 ft above ground marshled with 2
notches on N, and 4 notches on S edge.

Subdivision of T. 19 N. R. 25 E. A. S. No.

Thence I run $0^{\circ} 47' E.$ on a true line
bet. secs. 7 and 18

Na $15^{\circ} 05' E$

Through dense artemesia undergrowth,
over level bottom.

- 1.80 Westwater creek (dry) bears $0.80^{\circ} E.$
 11.60 Westwater creek bears N.
 16.80 Westwater creek bears from N. to S.E.
 25.80 Top of hill 40 ft high, bears N and S; thence
over broken ground.
 30.80 Ridge 50 ft high, bears N and S
 38.50 Coule 6 ft wide, 5 ft deep bears S.
 39.78 Set a post 3x3 ins, 3 ft long, with marshled
stone, 12 ins in the ground, for $\frac{1}{4}$ sec.
cor, marshled $\frac{1}{4}$ ft on W face; dug pits
18x18x12 ins E and W of post, 5 $\frac{1}{2}$ ft dia.
and raised a mound of earth, $1\frac{1}{2}$ ft
high 3 $\frac{1}{2}$ ft base, around post.
 54.50 Coule bears S.W.
 79.78 The cor to secs. 7, 8, 17 and 18.
 Land broken and level; soil clayey
3rd rate.
 No timber.
 Dense artemesia undergrowth on 79.78
cto.

No $0^{\circ} 47' W$ bet secs. 7 and 8

Na $15^{\circ} 05' E$

Through dense artemesia under-
growth, over broken ground, gradually
ascending.

- 110.00 Set a post 3x3 ins 3 ft long, with marshled
stone, 12 ins in the ground, for $\frac{1}{4}$ sec
cor, marshled $\frac{1}{4}$ ft on W face; dug pits
18x18x12 ins N and S of post, 5 $\frac{1}{2}$ ft dia.
and raised a mound of earth $1\frac{1}{2}$ ft
high 3 $\frac{1}{2}$ ft base around post.
 75.00 Top of ascent, entire nearly level ground
 80.00 Set a sandstone 18x12x4 ins, 12 ins in the
ground for cor to secs. 5, 6, 7 and 8, marshled
with 5 notches on S and E edges; dug

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Subdivision of T 19 R 25 E. S.S. N.W.

pits $18 \times 18 \times 12$ ins. in each sec. $5\frac{1}{2}$ ft dist
and raised a mound of earth $2\frac{1}{2}$ ft high,
 $4\frac{1}{2}$ ft base alongside.
Land, broken and level; soil clayey 2nd
rate.
No timber.
Dense artemesia undergrowth on
80.00 cha.

N $0^{\circ} 0' W$ on a random line bet. secs 5 and 6
Va $15^{\circ} 00' E$

40.00 Set temporary $\frac{1}{4}$ sec. cor.
Intersect N bdy of $\frac{1}{4}$ sec. 43 1/2 E of cor to
secs. 5, 6, 31 and 32.
Thence down, $10^{\circ} 22' E$, on a true line
bet. secs. 5 and 6
Va $15^{\circ} 10' E$
Through dense artemesia under-
growth, over nearly level ground,
40.46 Set a post 3×3 ins 3 ft long, with marshled
stone 12 ins. in the ground, for $\frac{1}{4}$ sec.
cor, marshled $\frac{1}{4}$ ft on W face; dug pits
 $18 \times 18 \times 12$ ins N and S of post, $5\frac{1}{2}$ ft dist.
and raised a mound of earth $1\frac{1}{2}$ ft
high, $3\frac{1}{2}$ ft base around post.
The cor to secs. 5, 6, 7 and 8.
Land nearly level; soil sandy loam, 2nd
rate.
No timber.
Dense artemesia undergrowth on
80.46 cha.

N $89^{\circ} 47' W$ on a random line bet. secs.
6 and 7

Va $15^{\circ} 00' E$

40.00 Set a temporary $\frac{1}{4}$ sec. cor.
Intersect W bdy of $\frac{1}{4}$ sec. 34 1/2 N of cor to
secs. 1, 6, 7 and 12 which is a charred post,
firmly set in place, 4×4 ins, $2\frac{1}{2}$ ft above
ground marshled with 1 notch on W and
5 notches on D edge.

Subdivision of T. 19 R. 25 E. S. L. M.

	Thence I run N 89° 59' E on a true line bet. secs. 6 and 7
	Va 15' 00' E
	Through dense artemesia undergrowth, over slightly rolling ground
35.50	Edge of bench bears N and S; descended.
39.44	Set a post 3x3 ins 3 ft long, with marshled stone, 12 ins in the ground, for $\frac{1}{4}$ sec. cor. marshled $\frac{1}{4}$ D on N face; dug pits 18x18x12 ins E and W of post, 5 $\frac{1}{2}$ ft dist and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base around post.
47.90	Coulter bears D.
- 79.44	The cor to secs. 5, 6, 7 and 8. Land level; soil on W $\frac{1}{2}$ sandy, 2 nd ratio; balance clayey 3 rd ratio. No timber. dense artemesia undergrowth on 79.44 chs.
	N 89° 55' E on a random line bet. secs. 5 and 8
	Va 15' 00' E
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.00	Intersect N and S line, 8 1/2 ft of cor to secs. 4, 5, 8 and 9.
	Thence I run, S 89° 52' W on a true line bet. secs. 5 and 8
	Va 15' 00' E
	Through dense artemesia undergrowth, over rolling ground.
26.00	Edge of bench bears N.E. and S.W. descended over broken ground, 60 ft to Coulter 6 ft wide, 4 ft deep bears D.
36.30	Set a post 3x3 ins, 3 ft long, with marshled stone, 12 ins in the ground for $\frac{1}{4}$ sec cor. marshled $\frac{1}{4}$ D on N face; dug pits 18x18x12 ins. E and W of post, 5 $\frac{1}{2}$ ft dist, and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base around post.
40.00	Thence over nearly level ground Coulter 4 ft wide, 7 ft deep bears S 30° E.
59.80	

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General Description of T. 19 S. R. 25 E. D. S. W.

80.00

The cov. to secs. 5, 6, 7 and 8.

Land rolling and level; soil, clayey &^w
rate; some sandy, 2^w rate on W.^{1/2}.

No timber

Dense artemesia undergrowth on 80.00 ch.

July 21st 1894

This township has an elevation of
from 400 to 500 ft above Grand river.
The land in the eastern and southeastern
portion is mountainous, being a
sandstone formation with indications
of coal.

The remainder of the township is
rolling and level with, generally,
a clayey soil.

There is some very good land along
Westwater creek, but the difficulty
of irrigating it renders it unavailable
at present excepting for pastureage.
The only water in the township is an
alkaline spring in the bed of Westwater
creek in the P.E. 1/4 of sec 19.

The cedar timber on the eastern portion
of this township is of a scrubby stunted
growth and of no value excepting
for fuel.

Practically all of the land is covered
with artemesia undergrowth
affording good forage for live stock.

The greater portion of this township
can be reclaimed, by irrigation,
using either the Grand or Green river
as a source of supply.

The mean declination for the flat,
the mean of five observations is
 $15^{\circ}04' E.$ The declination varies from
about $14^{\circ}50'$ - $15^{\circ}20' E$ in different
localities.

There are no settlers in the township.
Moriah Mercer has left the vicinity

1510
General Description of T 19 S R 25 E S. L. M.

The location of the three other applicants for this survey are given in the notes of T 20 S R 25 E.

Frank E. Baxter
U. S. Dep. Surveyor.

A list of the names of the individuals employed by , U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the
..... Meridian, in , showing
respective capacities in which they acted :

Final Oath of Assistants:

We hereby certify that we assisted , U. S. Deputy Surveyor, in surveying all
se parts or portions of the

..... Meridian, , as are represented in the
going field notes as having been surveyed by him and under his direction; and that said survey has been in all
pects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
ording to the instructions furnished by the U. S. Surveyor General for

scribed and sworn to before me this }
day of , 18 }



I, U. S. Deputy Surveyor, do
solemnly swear that, in pursuance of instructions received from U. S.
Surveyor General for bearing date of the day of
....., 18, I have well, faithfully, and truly, in my own proper person, and in strict
conformity with the instructions furnished by the U. S. Surveyor General for the
surveying manual, and the laws of the United States, surveyed all those parts or portions of

..... Meridian, in the as are represented in the fore-
going field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all
the corners of said survey have been established and perpetuated in strict accordance with the surveying manual,
printed instructions, the special written instructions of the U. S. Surveyor General for
and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey;
and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress
approved August 8, 1846.

U. S. Deputy Surveyor.

Subscribed and sworn to before me this }
day of , 18 }



Approval.

Office of the U. S. Surveyor General,

Dak. City, Mo.

June 6, 1895

The foregoing field notes of the survey of
Countyship, 19 South Range, 25 East of the Dak.
R. R. Dist. & Meridian, in the Territory of Colarado.

executed by
Frank E. Baster
under his Contract No. 196, dated January 18, 1874, having been critically
examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are
hereby approved.

George W. Steward
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in
is a correct copy, having been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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No. 3. B.

FIELD NOTES

OF THE SURVEY OF

The Subdivision of Township 19 South
 Range 26 East

Of the Dall Laslo Meridian,

Territory of Utah

AS SURVEYED BY

Franck E. Baxter, U. S. Deputy Surveyor,

under his Contract No. 196, dated January 18th, 1894

Survey commenced July 23rd, 1894.

Survey completed July 24th, 1894.

Subs.	H	5,76.101	
	L	46.945	4,43.04
(Deacon)	H	5,29.481	
	L	53.031	

ames an

32

Samuel Morris Chairman

Wallace Watson Chairman

Edward Redmond Chairman

Lovett Wells Chairman

Volume

#

R0236

INDEX DIAGRAM.

Township 19 S., Range 26 E.

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Meanders Page 7

Preliminary Oaths Assistants.

We,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this _____
day of _____, 18 _____. }

We,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this _____, Axeman.
day of _____, 18 _____. } Axeman.

21

Subdivision of T. 19 S. R. 26 E. S. S. W.

My instructions require me to run the N
bdy of this Twp. I did not run this bdy as
the rough character of the ground makes
it impracticable to do so by ordinary
methods.

The survey of this Twp was commenced July 2nd
1894

Preliminary to starting work on this Twp. I
test the adjustments of my transit and length
of my chain and find them correct.

I begin at the S. bdy of the Twp at the cor to
secs. 5, 6, 31 and 32 as hereinbefore described.
Hence I run N $0^{\circ}01' E$ bet. secs. 31 and 32

Va 14° 45' E

Through dense artemesia undergrowth

1.00 Couler bears W.

16.00 Wash in gulch bears W.

37.00 Couler bears S. W.

40.00 Set a sandstone 12x9x6 ins 8 ins in the ground
for 1/4 sec. cor., marked 1/4 on W face; dug
pit 18x18x12 ins. N and S of stone 5 $\frac{1}{2}$ ft dist
and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft
base alongside.

57.30 Couler bears W.

69.00 Wash in gulch 25 ft dup bears W.

70.40 Top of hill descended to

77.16 River bottom, fence bears N 20° E and
S 70° W; enter dense willow undergrowth

79.20 Irrigating ditch 4 ft wide, 1 ft dup
bears W.

80.00 Set a sandstone 20x18x3 ins, 15 ins in the
ground for cor to secs. 29, 30, 31 and 32
marked with 1 notch on S and 5 notches
on E edge; dug pit 18x18x12 ins in each
sec. 5 $\frac{1}{2}$ ft dist and raised a mound
of earth 2 ft high, 4 $\frac{1}{2}$ ft base alongside
Sand rolling and river bottom; soil sandy
3rd rate, and alluvial, 1st rate.

Dense undergrowth on 80.00 cho.

From the cor to secs 4, 5, 32 and 33 on the S.

Subdivision of T 19 D. R 26 E. D. S. M.

bdy of thi⁹ p as hereinbefore described
I run N 0° 0' E bet secs. 32 and 33.
Va. 14° 50' E

	Through dense artemesia undergrowth Coulter bears N. W.
7.80	Coulter bears N 70° W
14.40	Set a sandstone 16x9x5 ins, 10 ins in the ground for 1/4 sec. cor., marked 1/4 on W face; dug pits 18x18x12 ins N and S of stone, 5 1/2 ft dist. and raised a mound of earth 1 1/2 ft high, 3 1/2 ft base alongside.
49.11	W.C. to mile 146 Utah - Colorado bdy line which is a sandstone 24x22x2 ins, marked W 146 W.C. on W face and C'85 on E face is 98 ltrs E of my line.
51.00	Top of hill descended.
64.20	Top of cliff 100 ft high, descend.
68.25	Left bank of Grand river. It is impracticable to set a stone in the ground, therefore set a sandstone 18x10x4 ins in a mound of stone 1 1/2 ft high, 2 ft base for meander cor. to fractional secs. 32 and 33, marked M.C. on N face. Pits imp. Sands mountainous and rolling; soil sandy and stony 3 rd and 4 th rate. No timber. Dense artemesia undergrowth on 68.25 cho.

From the corner of secs. 29, 30, 31 and 32
I run E on a true line bet secs. 29 and 32
Va 15° 00' E

	Through dense willow undergrowth.
0.80	Fence bears N 10° E
4.20	Leave undergrowth. ditch bears N 60° W ascend steep hill,
18.00	Gulch 20 ft deep bears N. W.
27.00	Gulch 50 ft deep bears N. W.
37.00	Gulch 40 ft deep bears N.
39.50	Top of hill 250 ft above sec. cor.; descend
40.00	Set a sandstone 16x10x4 ins 10 ins in the ground, for 1/4 sec. cor. marked 1/4 on

Subdivision of T. 19 D. R. 26 E. D. S. M.

	N face; raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside. Pit & imp.
45.75	Top of cliff 150 ft above water, left bank of Grand river, cut a cross at exact cor. Point and N.C. on ledge of rock for me- ander cor. to fractional secs. 29 and 32; raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside. Pit & imp. Land mountainous and river bottom. Soil stony 4 th rate, and alluvial, 1 st rate. No timber. Dense willow undergrowth on 4.20 chs. Mountainous on 41.5-5 chs.
	From the cor. to secs 29, 30, 31 and 32 I run. W on a random line bet secs. 30 and 31: Va $15^{\circ}00' E$
6.80	Left bank Grand river set a temporary mea- nder cor. To determine distance across I set a flag on line on right bank and from this point measure a base N 4.00 chs. From W end of base the temporary meander cor on left bank bears S $79^{\circ}36' E$; the whole distance then is $4 \times \tan 79^{\circ}36' = 4 \times 5.448 = 21.79 + 6.80 = 28.59$
28.59	Left bank Grand river set a temporary mea- nder cor.
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.04	Intersect W bdy of $\frac{1}{4}$ sec. at the cor to secs. 25, 30, 31, 36 There a I run E on a true line bet. secs. 30 and 31 Va $15^{\circ}00' E$
35.40	Through dense artemesia undergrowth. Top of cliff 200 ft high; descend
35.75	Present track R.G.W. Ry. bears N. E. and S. W. Gence bears N. E. and S. W.; under dense
37.10	willow undergrowth.
40.02	Set a sandstone $14 \times 8 \times 4$ ins., 10 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face. dug pits $18 \times 18 \times 12$ ins. and W of stone, $5\frac{1}{2}$ ft dist. and raised a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base alongside.
47.10	Leave undergrowth.

Subdivision of T. 19 S. R. 26 E. D. L. N.W.

- 51.45 Right bank of Grand river. It is impracticable to set a stone in the ground, I therefore set an oil shale boulder 18x14x6 ins in a mound of stone 1 $\frac{1}{2}$ ft high 2 ft base for meander cor to fractional secs 30 and 31 marked M.C. on E face. Pits into
- 73.24 Left bank of Grand river, set a sandstone 22x12x2 ins 16 ins in the ground for meander cor to fractional secs 30 and 31, marked M.C. on W face; dug a pit 3x3x1 ft 8 Elks of stones and raised a mound of earth 2 ft high 4 $\frac{1}{2}$ ft base alongside.
Enter dense willow undergrowth.
- 80.04 The cor - to secs 29, 30, 31 and 32
Land mountainous and river bottom: soil sandy and stony 3 $\frac{1}{2}$ rate; and alluvial 1 $\frac{1}{2}$ rate on river bottom
No timber.
Dense undergrowth on 50.90 chs.
-
- No 0° E but sec 29 and 30
Va 15° 00' E
- Through dense willow underbrush
- 170 Left bank of Grand river, set a post 4x4 ins 4 ft long, with marked stones 12 ins in the ground, for meander cor to fractional secs. 29 and 30, marked M.C. on N face, T. 19 S. R. 29 on E, R 26 E on S and D 30 on W face. dug a pit 3x3x1 ft 8 Elks of post and raised a mound of earth 2 ft high, 4 $\frac{1}{2}$ ft base around post.
- I put a flag on line on right bank of Grand river, and from this point measured a base N 89° 59' W 5.00 chs. From W end of this base the meander cor on left bank of river bears. 0° 16' 09' E: the distance across is: 5x cot 16° 09' = 5x 3.45 = 17.25 chs. The whole distance is 1.70 + 17.25 chs. 18.95 chs.
- I measure S 0° 0' W 2.45 chs and at

Subdivision of T 19 S. R. 26 E. S. S. W.

16.00	Right bank of Grand river, set an oil shale boulder 18x12x4 ins, 12 ins in the ground for meander cor. to fractional secs. 19 and 30, marked M.C. of D face, from which A cottonwood tree 24 ins in diam. bears N 77° E 18 ft dist, marked T 19 S.R. 26 E S 29 M.C. B.T.
	A cottonwood tree 12 ins in diam., bears N 15° 30' W, 142 ft dist, marked T 19 S.R. 26 E S 30 M.C. B.T.
	Thence through dense artemesia undergrowth, over level bottom
23.10	Present track R.G.W. Ry. bears N 80° E and S.W.
27.00	J. R. Williams' cabin 2.00 ells E
40.00	Set a sandstone 16x10x4 ins 10 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face, dug pits 18x18x12 ins, raised 8 ft of stone 5 ft ft dist, and raised a mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base along side.
47.00	Couler's 4 ft wide 1 ft deep bears S.E.
56.50	Couler's bears from N 10° W to S 20° W
69.30	Couler's bears P.W.
76.00	Couler's bears P.E.
80.00	Set a sandstone 18x10x6 ins, 12 ins in the ground, for cor. to secs. 19, 20, 29 and 30 marked with 2 notches on D and 5 notches on E edge, raised a mound of stone covered with earth 2 ft high 4 $\frac{1}{2}$ ft base alongside R.R. rds.
65.20 14.80	Land level, slightly ascending on W part, soil alluvial 1 $\frac{1}{2}$ rate and on E part, sandy 3 $\frac{1}{2}$ rate.
	A few cottonwood trees along right bank of river.
	Dense willow or artemesia undergrowth on 60.20 ells.

Note: There is a high impassable cliff

Subdivision of R¹ S. R²⁶ E. S. C. M.

on the N. E. and W. of this cor. a few chs dist. therefore I cannot extend the survey further in these directions.

- From the meander cor to fractional secs. 32 and 33 on the left bank of Grand river, I set a flag on the right bank of Grand river on the prolongation of the line bet secs 32 and 33.
- From this flag I measure a base N^{89°59'W} 4.00 chs; from the W end of this base, the meander cor on left bank bears S^{10°26'E}; the distance therefore equals 4x cot. $10^{\circ}21'$ = 4×5.475 = 21.90 chs. The total distance, then, from the D bdy of 7th is 68.25 chs + 21.90 = 90.15 chs.
- I now measure S^{0°0'W} 7.15 chs and at $90.15 - 7.15 = 83.00$ chs, or from the theoretical position of the cor to secs 28, 29, 32 and 33
- 3.00 Right bank of Grand river, set an oil shale boulder $20 \times 6 \times 4$ ins 15 ins in the ground for meander cor to fractional secs. 28 and 29, marked M.C. on D face; dug a pit $3 \times 3 \times 1$ ft, 8 ft N of stone and raised a mound of earth 2 ft high, $\frac{4}{11}$ ft base alongside.
- ^{90.15 chs} ~~meander cor, which N^{0°0'W} bet secs. 28 and 29~~
^{10.15 chs} Enter dense ^{10.15 chs} undergrowth.
- 6.00 Leave undergrowth.
- 8.46 Present track Rio Grande Western Ry bears E.
- 9.00 Foot of impassable cliff 100 ft high; I therefore abandon my line at this point.
- Land level, soil alluvial 1st rate.
Dense undergrowth on 3.00 chs.

July 2nd 1894

Meadows 9.19 D.R. 26 E. I.S.W.

Meadows of left bank of Grand river up stream

From the meander cor to fractional secs. 32 and 33 I run with meanders in sec 33

8a 14000' E

E 121 chs intersect Utah-Colorado bdy line 19.14 chs N of W.C. to mile 146 hereinbefore described. Left bank of Grand river, set a sandstone 16x10x5 ins 10 ins in the ground for meander cor on E line of fractional sec. 33, marked W.C. on N face, raised a mound 3 ft 17 $\frac{1}{2}$ ft high 2 ft base along side. Pits imp.

Land mountainous; soil stony, thin, rate. Mountainous on 121 chs

July 23rd 1894

Meadows of right bank of Grand river up stream.

I begin at the S bdy of the Tp. at the meander cor to fractional secs 6 and 31.

This line lies along the present track of the R.G.W Ry, for some distance, so I therefore cannot use the mag. needle, I take a foresight on the S bdy of the Tp. and turn 90° left for my meridian.

Thence I run with meanders in Sec 31 (by plate angles).

N 49 $\frac{1}{2}$ E 5.90 chs. This point is on the present track of the R.G.W Ry.

distance along said track.

15 ft above water line

N 37 $\frac{1}{2}$ E 5.00.. at 200 chs upper end of bar.

N 17° E 5.40"

N 6° W 13.60"

N 4° E 10.00"

N 21° E 7.00,,

Meanders T. 19 S. R. 26 E. I.D. No.

Meanders of right bank of Grand River up stream.

N 29 $\frac{1}{2}$ ° E 15.00 chs.

N 38 $\frac{1}{2}$ ° E 15.30 " At 11.00 chs leave R.G.W.Ry
track; enter dense willow
and cottonwood underbrush.

Va 15° 00' E

Thence along bank 6 ft high.

N 60 $\frac{3}{4}$ ° E 4.00 chs.

N 67° E 9.00 " At 2.00 chs leave underbrush

N 58° E 8.20 "

N 52 $\frac{1}{4}$ ° E 3.87 " To meander cor to fractional
secs 30 and 31.

Land level; soil stony & rate.

Dense underbrush on 10.30 chs.

Thence in sec 30

Va 14° 05' E

Over gravelly bank 4 ft high.

N 48 $\frac{1}{4}$ ° E 17.50 chs. At 11.00 chs 6 ft bank, alluvial
soil, enter dense under-
growth.

N 72 $\frac{1}{4}$ ° E 16.22 " At 7.00 chs leave under-
growth.

To the meander cor to fractional secs.
29 and 30.

Land level; soil alluvial, 1st rate and stony
& rate.

Dense undergrowth on 16.22 chs.

Thence in sec 29

Va 14° 05' E

Through heavy cottonwood timber and
dense underbrush.

N 76 $\frac{1}{4}$ ° E 7.00 chs.

N 86° E 10.00 " Leave underbrush

E 10.90 " At 3.00 chs fence bears N.E.
Chas Brooks cabin bears

N 45° E 4.00 chs. dist.

N 65° E 5.90 " Through heavy cottonwood timber

381

Manders R. 19 S. R. 26 E. D.P.M.

Manders of right bank of Grand river
up stream.

and dense underbrush

051°E 5.00 chs.

065°E 10.70 "

075°E 4.00 " at 0.80 chs fence bears N 60°E
Leave timber and underbrush.

087°E 11.70 " at 11.00 chs bank 8 ft high.

080°E 4.00 " at 2.00 chs enter dense willow
underbrush.

083°E 4.33 " to meander cor to fractional
secs 28 and 29

Land level; soil alluvial 1st rate, and stony,
4th rate.

Dense cottonwood timber or dense under-
growth on 51.54 chs.

Thence in sec 28

Wa 14.55° E

Through dense undergrowth

End 1.37 chs. intersect Utah - Colorado
bdy line 33.89 chs N of W.C. to mile 146
which is a cor. hereinbefore described.

Right bank of Grand river set a sandstone
17x12x4 ins 12 ins in the ground for
meander cor. on the E line of fractional
sec 28, marked W.C. on N face; dug a
pit 3x3x1 ft 8 ltrs N of stone and raised a
mound of earth 2 ft high 4 ft base
along side.

Land, level; soil alluvial 1st rate.

No timber.

Dense undergrowth on 1.37 chs.

Manders of left bank of Grand river
down stream.

I begin at the meander cor to fractional
secs 32 and 33

Thence I run with meanders in sec 32

Wa. 14.55° E

Meanders of left bank of Grand
river down stream.

Along foot of cliff, 250 ft high, through
dense undergrowth.

N 65° W 1.90 chs.

N 75° W 3.40 chs. Leave undergrowth

N 71° W 3.090 chs. to meander cut to
fractional secs. 29 and 32.

Sand mountainous; soil stony, 3rd and
4th rate.

No timber

Dense undergrowth on 5.30 chs.

Mountainous on 36.20 chs.

Thence in sec 29

Via 15° 00' E

It is impossible to chain part of this line,
I therefore measure offsets from the
line bet. secs. 29 and 32 and deduce the
following meanders.

N 70° 41' W 16.02 chs. At and opposite upper end
of gravel bar.

N 87° W 11.42 chs

0 7752 W 11.41 chs. At 10.62 chs. W.W. Champion's
water elevator; water level
bottom and dense willow
underbrush; bank 6 ft high.

0 7752 W 8.27 chs. to the meander cut to frac-
tional secs 29 and 30.

Sand mountainous and river bottom.

Soil on mountainous part stony 4th rate;
balance, alluvial 1st rate.

No timber

Dense willow underbrush on 9.08 chs.

Mountainous on 98.04 chs.

Thence in sec 30

Via 15° 00' E

Through dense willow undergrowth
over low bottom, bank 6 ft high.

Meanders of left bank of Grand river, down stream.

$076^{\circ} W$ 7.00 chs. to the meander cor. to fractional secs. 30 and 31
Land, level; soil alluvial, 1st rate
No timber
Dense willow undergrowth on 7.00 chs.

Thence in sec. 31

Via $15^{\circ} 00' E$

Through dense willow and aquaw under-brush. Bank 6 ft high.

$066\frac{1}{2}^{\circ} W$ 19.50 chs. At 8.00 chs. lower end of bar
At 15.30" ditch 6 ft wide, 5 ft deep bears $150^{\circ} W$
At 19.50.. W. W. Champini's house
bears $012^{\circ} W$ 15.00 chs dist.
Leave willow, and enter
dense cottonwood under-growth.

$059^{\circ} W$ 31.00 chs At 8.00 chs along h 30 ft wide
6 ft deep bears N
" 15.00" along h 50 ft wide
5 ft deep bears S.

$039\frac{1}{2}^{\circ} W$ 11.00 chs.

$022^{\circ} W$ 10.00 "

$09^{\circ} W$ 8.40 "

0 9.70 "

$050^{\circ} E$ 5.40 "

0 9.00 "

$016^{\circ} W$ 3.00 "

$011\frac{1}{2}^{\circ} W$ 3.06.. To meander cor to fractional
secs 6 and 31 on N side of R. b.

Land, level; soil alluvial, 1st rate

A few cottonwood trees along line.

Dense willow or cottonwood undergrowth
on 110.06 chs.

July 24th 1894

29

General Description of T 19 S R 26 E S.S.

The surveyed portion of this township embraces a narrow valley along Grand river. This valley is nearly level and has a rich alluvial soil.

The hilly portions of the township are covered with artemesia undergrowth affording good pasture for stock.

The unsurveyed portion is mountainous stony and barren excepting for the growth of stunted cedars in places. The magnetic declination of the plat is $10^{\circ} 03' E.$ It varies from this, in places, from 10' to 15' owing to local causes unknown to me.

There are two settlers in this township: J. R. Williams located in sec 29 has a log cabin and corral valued at \$100⁰⁰.

W. V. Champion, in sec 31, has a log house a water elevator in Grand river, 1 mile of ditch and some fencing worth about \$500⁰⁰. Jas. Wells one of the applicants for this survey lives with him.

The amount of land cultivated by Champion and Wells is about 20 acres.

Chas. Brock, deceased, lived in sec. 29. His improvements consisting of a log cabin and $\frac{1}{2}$ mile of fence are worth \$150⁰⁰. He is buried on his claim.

A. E. Linkletter has removed from this vicinity.

The remaining applicants for this survey are residents of adjoining townships, embraced in this contract and their improvements are described in the notes of the townships in which they live.

Frank E. Baxter
U. S. Dep. Surveyor.

31

List of Names.

A list of the names of the individuals employed by _____, U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the _____

Meridian, in _____, showing the respective capacities in which they acted:

Final Oath of Assistants:

We hereby certify that we assisted _____, U. S. Deputy Surveyor, in surveying all those parts or portions of the _____

Meridian, _____, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for _____

scribed and sworn to before me this _____ }
day of _____, 18 _____ }



Final Oath of U. S. Deputy Surveyor.

I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, the surveying manual, and the laws of the United States, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey, and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Subscribed and sworn to before me this _____
day of _____, 18_____. }

U. S. Deputy Surveyor.



Approval.

Office of the U. S. Surveyor General,

Salt Lake City, Utah June 6, 1895

The foregoing field notes of the survey of the Subdivision of Township, 19
South Range 11, East of the Salt Lake Branch, and, more particularly,
Territory

executed by
Frank E. Bayley
under his Contract No. 1916, dated January 18, 1894, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, hereby approved.

George W. Strood
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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W.J.B.

FIELD NOTES

OF THE SURVEY OF

The line between Ranges 24 and 25 East
through Township 25 South

Of the Dall Castle Meridian,

Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

Under his Contract No. 196, dated January 18th, 1894

Survey commenced August 1st, 1894

Survey completed August 2nd, 1894

Distance 1.500 ft.

ft 3' 6.00
L 3' 9.00 6.00 00

Names and Duties of Assistants.

Daniel Morris	Chairman
Wallace Watson	Chairman
Edward Redmond	Axeman
Cowell Wells	Flagman

INDEX DIAGRAM.

Township 25 S., Range 24 and 25 E.

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Meanders Page.....

Preliminary Oaths of Assistants.

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

_____, Chainman.

_____, Chainman.

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____
day of _____, 18 _____. }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the _____

Subscribed and sworn to before me this _____, Axeman.
day of _____, 18 _____. } _____, Axeman.

Line bet Ranges 24 and 25 E through T 92 S. S. L. M.

In beginning the survey of T 92 S R 24 E, I find, upon examination, that it is absolutely impossible to project a line eastward from any point on the W bdy of the township, owing to the impassable cliffs extending N and S through the western part of this township.

I am therefore compelled, in order to get a starting point for my survey, to go to the standard cor to T 92 S R 24 and 25 E and run N 6 miles and set the S.E. cor to T 92 S R 24 E.

Survey commenced Aug 1st 1894.
After putting my transit and chain in adjustment I set my transit over the standard cor to T 92 S R 24 and 25 E which is a sandstone, finely set, 6x10x8 ins above ground, marked with 6 grooves on the N, E and W faces, from which a quaking asp tree 12 ins in diam bears N 51° 30' E 26 lms dist, marked T 92 S R 25 D 31 B.T.

A quaking asp tree 12 ins in diam, bears P 61° 30' W 18 lms dist, marked T 92 S R 24 D 1 B.T.

I make the following obs on the sun at 3 P.M. Aug 1st 1894 in Lat 38° 36' N.

Alt.	Hour angle left.
53° 16'	114° 16'
53° 07'	114° 00'
52° 58'	113° 51'
<u>52° 49'</u>	<u>113° 37'</u>
sun 212° 10' ✓	sun 405° 47' ✓
mean 53° 02' 30" ✓	mean 113° 56 1/4 ✓
Ref - 43" ✓	
h = 53° 01' 47" ✓	
dec Aug 1. (Ephem)	170° 58' 22" ✓
Sub 37.96x10	<u>6' 9" ✓</u>
dec Aug 1 st 3 P.M. say,	170° 52' ✓

Line bet. Ranges 24 and 25 E through L 925 S. D. S. M.

$P.D. = 90^\circ - 17^\circ 52'$	$72^\circ 08' 00'' \checkmark$
$h \log \cos \text{ of}$	$53^\circ 01' 47'' = 9.779163 \checkmark$
$L \quad " \quad "$	$\underline{38^\circ 36' 00''} = \underline{9.1892940} \checkmark$
$2 A$	$163^\circ 45' 47'' 19.672103' (a)$
	$\cdot \checkmark \quad 9.836051' (b)$
$1. \log. \cos \text{ of}$	$81^\circ 53' \checkmark = 9.149802 \checkmark$
$D-PD \quad " \quad "$	$9^\circ 45' = \checkmark \underline{9.993682} \checkmark$
	$\text{Sum} = 19.143484 \checkmark$
	$\checkmark \quad 9.571742 \checkmark$
$\text{sub}(b)$	$\underline{9.836051} \checkmark$
$\frac{1}{2} Z \log \cos \text{ of } 57^\circ 02' 09'' =$	$9.735691 \checkmark$
$Z = 1140.04 \frac{3}{4}$	
60 angle left	$\underline{113^\circ 56 \frac{3}{4}}$
Ref line bears $W 01\frac{1}{2} W$. I turn off $7\frac{1}{2}^\circ E$ and find the mag bearing of the true meridian to be $W 14^\circ 40' W$, and the mean declination is $14^\circ 43' E$.	

Thence I run N bet secs. 36 and 31

at $140^\circ 40' E$

descending through heavy quaking
asp timber

- 17.00 Wash in gulch bears N.E.
20.50 Leave timber, thence over hillside
sloping E.
40.00 Make diligent search for $\frac{1}{4}$ sec cor. but
do not find it, I therefore set a sandstone
 $12 \times 12 \times 5$ ins., 8 ins in the ground for
 $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on W face; raised
a mound of stone $1\frac{1}{2}$ ft high, 2 ft
base along sides. Pits imp.
45.20 Wash in gulch bears N $70^\circ E$
65.00 Enter dense oak undergrowth.
80.00 Failing to find the sec cor, I set a sand-
stone $22 \times 12 \times 6$ ins., 16 ins in the ground
for cor to secs 25, 30, 31 and 36, marked
with 5 notches on N and 1 notch on S
edge; raised a mound of stone $1\frac{1}{2}$
ft high 2 ft base, along sides. Pits imp.
Land mountainous, soil, sandy loam
2nd rate.

1401

Line bet. Ranges 24 and 25 E. Throgh. 9250. D.S.W.

Heavy quaking asp timber or dense oak undergrowth on 35.00 chs.
Mountainous on 80.00 chs.

W bet. secs. 25 and 30

Va 140 42' E

Through dense oak undergrowth, along E slope of hill

21.00 Head of gulch bearing N.E.

40.00 Failing, after diligent search to find the $\frac{1}{4}$ sec. cor. I set a sandstone 12x12x12 ins in a mound of stones $1\frac{1}{2}$ ft high 2 ft base for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face. It was impracticable to set a stone in the ground.
Pilo imp.

62.00 Enter heavy pine timber

78.00 Leave timber enter dense undergrowth

79.00 Edge of mountain bears E and W
descend steep slope

80.00 Failing to find the sec cor, and it being impracticable to set a stone in the ground, I set a sandstone 20x15x10 ins in a mound of stones $1\frac{1}{2}$ ft high, 3 ft base for cor. to secs. 19, 24, 25 and 30 marked with 11 notches on W and 2 notches on S edge. Pilo imp. No bearing trees available.

Land, mountainous; soil, black loam
and stony, 2nd and 3rd rate.

Heavy pine timber or dense oak undergrowth on 80.00 chs.

Mountainous on 80.00 chs.

Aug 1st 1894

W bet. secs 19 and 24

Va 140 45' E

Descend steep slope, through dense oak undergrowth.

21.00 Wash in gulch 300 ft below sec. cor.
bears N.W. 2.00 chs; then N.

31.00 Ridge bears E

Line bet. Ranges 24 and 25 E through 925 S. S. L. M.

40.00	It is impossible to set the $\frac{1}{4}$ sec cor. as it comes on the sides of a cliff.
43.00	It is impracticable to set a stone in the ground, I therefore set a sandstone $28 \times 14 \times 3$ ins, in a mound of stone, $1\frac{1}{2}$ ft high, 2 ft base, for witness to $\frac{1}{4}$ sec cor. marked W.C. $\frac{1}{4}$ on W face. Pits imp.
43.60	High point of rock; descend 300 ft to
80.00	Failed to find the sec. cor. It is impracticable to set a stone in the ground, I therefore set a sandstone $19 \times 12 \times 4$ ins in a mound of stone $1\frac{1}{2}$ ft high, 3 ft base for cor to secs. 10, 18, 19 and 24, marked with 3 notches on the N and S edges. Pits imp. Land mountainous, soil sandy and stony 3rd and 4th rate. No timber. Dense undergrowth on 80.00 chs. Mountainous on 80.00 chs.

	N bet. secs. 15 and 18 Va 14°42' E
	Along W slope of high ridge, through dense oak undergrowth.
14.00	Wash in gulch 75 ft deep bears N.W. Enter heavy scrub cedar and pinon timber
19.30	Wash in gulch 20 ft deep bears W.
34.00	Wash in gulch 60 ft deep bears W.
40.00	Failed to find the $\frac{1}{4}$ sec cor. It is impracticable to set a stone in the ground, I therefore set a sandstone $32 \times 9.0 \times 6$ ins in a mound of stone $1\frac{1}{2}$ ft high, 3 ft base for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face. Pits imp. No bearing trees available.
80.00	Failed to find the sec. cor. I set a sandstone $16 \times 9 \times 4$ ins 10 ins in the ground for cor. to secs. 7, 12, 13 and 18 marked with 2 notches on N, and 4 notches on S edge. Raised p. mound of stone $1\frac{1}{2}$ ft

40.
Line bet Ranges 24 and 25 E Through 925 S. S. L. M.

high, 2 ft base alongside. Pits imp
No bearing trees available.
Land mountainous, soil stony & th
rate.
Heavy scrub cedar and pinyon timber
or dense oak undergrowth on 8000 chs.
Mountainous on 8000 chs.

W bet. secs 7 and 12

Va 140 37' E

Through heavy scrub cedar timber; descend

17.00 Foot of mountain. Leave timber and enter
dense artemesia undergrowth

26.00 Wash in gulch, 4 off deep bears N. E.

40.00 Set a sandstone 16x10x6 ins 10 ins in the
ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W
face; raised a mound of stone 1 $\frac{1}{2}$ ft
high, 2 ft base alongside. Pits imp.80.00 Set a sandstone 18x9x4 ins 12 ins in the ground
for the cor. to secs 1, 6, 7 and 12, marked with
1 notch on N, and 5 notches on D edge; raised
a mound of stone, 1 $\frac{1}{2}$ ft high, 2 ft base
alongside. Pits imp.Land, mountainous and level; soil stony
& th rate and 3rd rate.Heavy scrub cedar timber or dense artemesia
undergrowth on 8000 chs.

W. bet secs. 1 and 6

Va 140 37' E

Through dense artemesia undergrowth
over nearly level ground.

1.90 Irrigating ditch bears N 10° W.

17.60 Coules 6 ft wide, 4 ft deep bears N 30° E

33.17 River bears E and W.

40.00 Set a sandstone 18x12x8 ins, 12 ins in the
ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on
W face; raised a mound of stone 1 $\frac{1}{2}$ ft
high 2 ft base alongside. Pits imp.

42.20 Road bears E and S. W.

45.70 ditch bears W.

Line bet. Ranges 24 and 25 E 9th range L T 25 S. A. L. M.

46.10	Enter cultivated land, leave undergrowth.
55.33	Fence bears N 70° E
59.27	Colorado Land and Cattle Co's house bears N $75^{\circ} 00' E$
60.00	Fisher cut (dry) bears N $30^{\circ} W$.
73.85	Fence bears N $75^{\circ} E$
75.00	Coulee 20 ft wide, 4 ft deep, bears N $10^{\circ} W$.
80.00	Set a sandstone 15 x 10 x 9 ins. 10 ins in the ground, for cor to Tps 24 and 25 D. R's 24 and 25 E, marked with 6 notches on N, E, S and W edges; raised a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base alongside. Pits. imp.
	Land, nearly level; soil sandy loam 1 $\frac{1}{2}$ and 2 $\frac{1}{2}$ in. thick.
	No timber.
	Dense artemesia undergrowth on 46.10 chs.

Aug 2nd 1894

The land in Tps 25 D R's 24 and 25 E lies
on the N slope of the La Dal mountains.
The soil is mostly black loam or
stony. Some of the land would produce
good crops of the harder grains
without irrigation. The land is well
adapted to grazing purposes through
the summer season.

Previous to reestablishing this line
I commenced at the Fourth Standard
Parallel South at the cor to secs 33 and 34
thence I run N bet. secs 33 and 34 and
find the cor. to secs. 27, 28, 33 and 34.
I then run W 80.00 chs. and find the cor
to secs. 28, 34, 32 and 30.

Thence I run W bet. secs 29 and 32
80.00 chs but fail after diligent
search to find either the $\frac{1}{4}$ sec. or sec
cor.

Pertaining to the cor. to secs. 28, 29, 32

and 36 I run N bet secs 28 and 29 but fail to find either the $\frac{1}{4}$ sec or sec. cor.; continuing N 2 miles more, making diligent search for cor., I fail to find the trace of any. From the point at which the cor to secs 8, 9, 16 and 17 should be I run W 2 miles to the point of the cor of secs 7, 12, 13 and 18 being unable to find the trace of any cor in this distance.

I therefore reestablish the line bet.

Rs 24 and 25 E in the manner above given having been unable to find any interior sec. cor. which would influence the position of the corners on the range line.

Frank E Baxter
U.S. Dep. Surveyor.

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List of Names.

A list of the names of the individuals employed by
....., U. S. Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of the

..... Meridian, in , showing
respective capacities in which they acted :

Final Oath of Assistants:

We hereby certify that we assisted
....., U. S. Deputy Surveyor, in surveying all
parts or portions of the

..... Meridian, , as are represented in the
going field notes as having been surveyed by him and under his direction; and that said survey has been in all
pects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
ding to the instructions furnished by the U. S. Surveyor General for

cribed and sworn to before me this }
day of , 18 }



B10
Final Oath of U. S. Deputy Surveyor.

I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, the surveying manual, and the laws of the United States, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Subscribed and sworn to before me this _____
day of _____, 18_____ }

U. S. Deputy Surveyor.



Approval.

Office of the U. S. Surveyor General,

Salt Lake City Utah June 1, 1895.

The foregoing field notes of the survey of _____
*Survey of the Township line between Range
24 & 25 E in Township 24 South of the Salt Lake Base and
Benchmark*

executed by
Frank O. Baker
under his Contract No. 196, dated *January 18th, 1894*, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Snow
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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J. J. B.

FIELD NOTES

OF THE SURVEY OF

The Exterior Lines of Township 24 South.
Range 24 East

Of the Salt Lake Meridian,

Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

under his Contract No. 196, dated January 18th, 1894

Survey commenced August 2nd, 1894.

Survey completed August 3rd, 1894.

3d.	217.01	0.63001
Aug 2 nd	227.95	12.02
	444.95	75.05

Daniel Morris Chairman
Wallace Watson Chairman
Edward Redmond Axeman
Lovel Wells Flagman

Volume

#

R0236

INDEX DIAGRAM.

Township 24 S., Range 24 E.

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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

5 11 3

Meanders Page.....

We,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will find the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 18 }

We,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this }
day of , 18 } , Axeman
..... , Axeman.

Exterior Lines of T 24 S R 24 E D. L. M.

My instructions require me to run E on a true line on the S body of this Tp from the S.W. cor. - a distance of 6 miles to the S.E. cor; thence N on the E body 6 miles.

The presence of impassable cliffs 1000 ft high extending N and S through the western portion of this Tp renders it impossible to project a line eastward from the S.W. cor or any other point on the W body of this Tp.

I am therefore compelled to establish the S.E. cor of the Tp by running N 6 miles from the South Standard Parallel South bet ranges 24 and 25 E. From the cor to Tps 24 and 25 S R 24 and 25 E so established I run the S body of the Tp W on a true line.

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East Boundary of T 24 S. R 24 E. D. S. M.

Survey commenced Aug 2nd, 1894.
I set my instrument over the cor to
Tps 24 and 25 N. R. 24 and 25 E which
is a cor. hereinbefore described.
Obs on sun's center for meridian at
4 P.M. Lat $38^{\circ}41'N$.

	Alt.	Hor angle left
	$32^{\circ}43'$	$93^{\circ}07'$
R_f	$- \frac{1^{\circ}}{100}$	
h	$32^{\circ}41'30''$	

	Sun's decl Aug 2 (ephem) $17^{\circ}43'02.4''$
	Sub. 11×38.69 $\underline{7^{\circ}05.6'}$
Decl Aug 2 nd 4 P.M.	$17^{\circ}035'56.8''$

$$P.D. = 90^{\circ} - 17^{\circ}035'57'' = 72^{\circ}24'03''$$

L. log cos of	$38^{\circ}41'00'' = 9.892435$
h " " "	$32^{\circ}41'30'' = 9.925101$
Z D	$143^{\circ}46'33'' = 19.817536$ (a)
	$\frac{1}{r} = 9.908768$ (b)

0 log cos of	$71^{\circ}53'17'' = 9.492585$
D-P.D. " " "	$30'46'' = \underline{9.999982}$
	sum 19.492567

	$\frac{1}{r} = 9.746283$
out. 16)	$\underline{9.908768}$

$\frac{1}{2} Z$ log cos of	$46^{\circ}32\frac{1}{4}' = 9.837515$
Z	$Z = 93^{\circ}04\frac{1}{2}r$

Hor angle left	$\underline{93^{\circ}07'}$
----------------	-----------------------------

Bearing of resection is N $02\frac{1}{2}E$.

I turn $02\frac{1}{2}E$ for the true meridian
and find its magnetic bearing to be
N $14^{\circ}37'W$. The mean declination is,
then, $14^{\circ}39'E$.

Thence I run, N. bet secos 31 and 36
Va $14037'E$

Through Colorado Cattle Co. field.

Fisher creek (dry) bears N.W.

Irrigating ditch bears N.W. enter cultivated
land

Set a sandstone 18x11x5 ins, 12 ins in the

10.20

12.50

40.00

East Boundary of T240. R24 E. I. S. M.

	ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins N and S of stone, 5 ft dist and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside.
52.36	Dence bears N 60° W
63.00	Leave cultivated land; enter dense artemesia undergrowth
64.60	Road bears N 10° W
80.00	Set a sandstone 16x10x6 ins, 10 ins in the ground, for cor. to secs. 25, 30, 31 and 36, marked with 5 notches on N, and 1 notch on S edge; dug pits 18x18x12 ins, in each sec 5 ft dist and raised a mound of earth 2 ft high, 4 ft base alongside.
	Land, nearly level; soil sandy loam, 1 st rate.
	No timber
	dense artemesia undergrowth on 17.00 chs.

Aug 2nd 1894

	N bet. secs 25 and 30
	Va 140 $44'$ E
	Through dense artemesia undergrowth.
1.20	Creek 20 ft wide, 4 ft deep, bears N. W.
9.00	Foot of steep slope ascend. Leave undergrowth
28.50	Top of hill 250 ft above sec. cor., bears E
38.00	Descend
40.00	It is impracticable to set a stone in the ground, & therefore set a sandstone 22x12x6 ins in a mound of stone $1\frac{1}{2}$ ft high, 3 ft base for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face. Pits imp.
61.50	Fisher creek (dry) bears E; ascend
75.00	Top of mountain 250 ft high
80.00	It is impracticable to set a stone in the ground, & therefore set a sandstone 24x8x5 ins in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base for cor. to secs. 19, 24, 25 and 30 marked with 4 notches on N, and 2 notches on S edge. Pits imp.
	Land mountainous and level; soil stony, 4 th rate and sandy 3 rd rate.

South Boundary of T. 24 N. R. 24 E. D. L. M.

Scattering scrub cedar timber on mountain.
Dense artemesia undergrowth on 9.00 chs.
Mountainous on 7.00 chs.

N. bet. secs 19 and 24

Va $14^{\circ} 40' E$

descend

31.00 Foot of mountain; trail bears S.W. Enter dense artemesia undergrowth.

40.00 Set a sandstone 17x10x6 ins. 12 ins in the ground for 1/4 sec. cor., marked 1/4 on W face; dug pits 18x18x12 ins N and S of stone 5 $\frac{1}{2}$ ft dist. and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base along sides

50.00 Enter heavy scrub cedar timber; leave undergrowth.

58.70 Couler bears S.E.

79.60 Foot of cliff 60 ft high.

It is impracticable to set a stone in the ground, I therefore set a sandstone 32x6x5 ins in a mound of stone 1 $\frac{1}{2}$ ft high, 3 ft base, for cor. to secs. 13, 18, 19 and 24 marked with 3 notches on N and S edges. Pits imp. No bearing trees available. Land mountainous; soil stony & rocky. Heavy scrub cedar timber or dense undergrowth on 4.900 chs.

Mountainous on 31.00 chs.

Note: There is an impassable cliff about 10.000 chs N of this cor. which extends for several miles E and W. I therefore discontinue my line at this point.

I now return to the S.E. cr of the town ship.

Hence I run. W on a true line bet. secs. 1 and 36.

Va $14^{\circ} 35' E$

0.60 Couler 20 ft wide, 4 ft deep, bears N $10^{\circ} 45'$.

South Boundary of T24 S. R24 E. D.L.W.

6.00	Coule bears N
12.05	Fence bears N 5° 40' W; enter dense artemesia undergrowth
18.90	Irrigating ditch, bears N 30° W.
33.20	Road bears N 20° W
39.70	Fence bears N 47° E
40.00	Set a sandstone 16x7x4 ins, 10 ins in the ground, for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on N face; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. Pilō imp.
47.25	Irrigating ditch bears N.
47.54	Fence bears N 1° E From this point cor of fence bear about 0° 30' W 5.91 chs dist.
54.84	Ditch bears N.W.
69.00	Coule 20 ft wide, 10 ft deep bears N.
8000	Set a sandstone 16x9x4 ins, 10 ins in the ground for cor to secs. 1, 2, 35 and 36, marked with 1 notch on E, and 5 notches on W edge; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside Pilō imp. Land nearly level; soil sandy loam 1st rate.
6.45	No timber.
6.45	Dense artemesia undergrowth on 67.95 chs.
Wear a tree line bet secs 2 and 35	
Va 14° 35' E	
Through dense artemesia undergrowth.	
6.49	Fence bears N 0° 45' E. The S.W. cor of J. Warings Desert Claim bears N 0° 45' W 3.35 chs. dist.
16.50	Enter scrub cedar timber
22.00	Wash in gulch 30 ft deep bears N.
26.00	Leave cedar timber.
40.00	Set a sandstone 16x10x6 ins, 10 ins in the ground, for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on N face; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. Pilō imp.
41.00	Wash in gulch 20 ft deep, bears N.E.

South Boundary of T 24 S. R 24 E. S. L. M.

67.50	Wash in gulch 50 ft deep, bears N.
80.00	Set a sandstone 18x12x6 ins, 12 ins in the ground, for cor to secs. 3, 3, 34 and 35, marked with 3 notches on E and 4 notches on W edge; raised a mound of stone, 1½ ft high, 2 ft base along sides. Pits imp.
	Sand, level and broken; soil sandy loam and stony, 2 nd and 3 rd rate.
	Timber, scrub cedar.
	Dense artemesia undergrowth on 80.00 chs.

W on a tree line bet. secs. 3 and 34

Va 140 37' E

Through dense artemesia undergrowth.

Wash in gulch 50 ft deep, bears N.E.

10.00 Wash in gulch 20 ft deep, bears N.

Coule bears N.

19.00 Wash in gulch 20 ft deep bears N.E.

Enter heavy scrub cedar timber

33.00 Wash in gulch 20 ft deep bears N.

Coule bears N.E.

40.00 Set a sandstone 16x12x4 ins 10 ins in the ground for ¼ sec. cor, marked ¼ on W face, raised a mound of stone 1½ ft high, 2 ft base along sides. Pits imp.

No bearing trees available.

Sand, broken; soil sandy and stony 2nd and 4th rate.

Heavy scrub cedar timber on dense artemesia undergrowth on 40.00 chs.

This cor is at the foot of an impassable mountain; I therefore discontinued the body at this point.

Aug 3rd 1894

Frank E. Baxter
U.S. Dep. Surveyor.

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List of Names.

A list of the names of the individuals employed by _____, U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the _____

Meridian, in _____, showing
respective capacities in which they acted :

Final Oath of Assistants:

We hereby certify that we assisted _____, U. S. Deputy Surveyor, in surveying all parts or portions of the _____

Meridian, _____, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for _____

scribed and sworn to before me this _____
day of _____, 18 _____. }



I, _____, U. S. Deputy Surveyor, solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in conformity with the instructions furnished by the U. S. Surveyor General for _____ surveying manual, and the laws of the United States, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that the corners of said survey have been established and perpetuated in strict accordance with the surveying printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey, and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Subscribed and sworn to before me this _____
day of _____, 18_____.

U. S. Deputy Surveyor



Approval.

Office of the U. S. Surveyor General,

Salt Lake City Utah June 16, 1895

The foregoing field notes of the survey of The Otteria series of Townships
2d South Range 2d East of the Salt Lake Base Line.

execute
Frank E. Barker
under his Contract No. 196, dated January 18th, 1894, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, hereby approved.

George W. Wood
U. S. Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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R. J. B.

FIELD NOTES

OF THE SURVEY OF

The Subdivision of Township 24 South.
Range 24 East.

Of the Salt Lake Meridian,

Possession of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

Under his Contract No. 196, dated January 18th, 1894.

Survey commenced August 4th, 1894.

Survey completed August 6th, 1894.

4
7.57.11
21.87.8
8.02.11

Daniel Morris Chairman

Wallace Watson Chairman

Edward Redmond Axeman

Lovell Wells Flagman

Volume

#

R0236

INDEX DIAGRAM.

Township 24 N., Range 24 E.

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

WE, _____

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the _____

_____, Chainman.

_____, Chainman.

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____
day of _____, 18 _____. }

WE, _____

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the _____

Subscribed and sworn to before me this _____
day of _____, 18 _____. } _____, Axeman.
 } _____, Axeman.

Subdivision of T. 24 S. R. 24 E. D. L. M.

Survey commenced Aug 4th 1894
I begin on the S. body of the 9th at the cor.
to secs. 1, 2, 35 and 36.

Thence down, W 0° 0' W bet. secs. 35 and 36
Va 14041' E.

Through dense artemesia undergrowth
over nearly level ground.

10.50 Enter cultivated land; have undergrowth
39.38 Fence bears E and W; have cultivated land
40.00 enter dense artemesia undergrowth
Set a sandstone 14 x 10 x 9 ins., 10 ins in the
ground, for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on
W face; dug pits 18 x 18 x 12 ins N and S of
stone $5\frac{1}{2}$ ft dist, and raised a mound
of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base alongside.

From $\frac{1}{4}$ sec. cor. J. Waring's cabin bears
S 86° 30' E

74.84 Fence bears E and W; from this point
W 5.35 chs to N. W. cor. of fence.

80.00 51.17
95.63 Set a sandstone 16 x 9 x 4 ins., 10 ins in the
ground, for cor to secs. 25, 26, 35 and 36
marked with 1 notch on S and 1 notch on
E edge; dug pits 18 x 18 x 12 ins. in each sec,
 $5\frac{1}{2}$ ft dist. and raised a mound
of earth 2 ft high, $4\frac{1}{2}$ ft base alongside
Land nearly level, soil sandy loam,
1st rate.

No timber.

Dense artemesia undergrowth on
51.17 chs.

E on a random line bet. secs 25 and 36
Va 14040' E

40.00 Set a temporary $\frac{1}{4}$ sec. cor.

80.00 Intersect E body of 9th at the cor to secs
25, 30, 31 and 36

Thence down, W, on a true line bet secs 25
and 36

Va 14040' E

Through dense artemesia undergrowth

Subdivision of 9.24 S. R. 24 E. J. L. M.

7.60	Prairie bears N.W. and S.E.
8.50	Coulee 10 ft wide, 10 ft deep bears N 30° W.
15.40	Fisher creek bears N. dry.
24.50	Coulee 20 ft wide, 10 ft deep bears N 30° W
26.02	Fence bears S 10° W.; 6.00 chs D to cor. of fence.
27.30	Coulee bears N.
28.00	Coulee bears N 30° E
31.50	Coulee 30 ft wide 15 ft deep, bears N 30° E
40.00	Set a sandstone 15x9x5 ins, 10 ins in the ground; for 1/4 sec. cor., marked 1/4 on N face; dug pits 18x18x12 ins E and W of stone, 5 1/2 ft dist and raised a mound of earth 1 1/2 ft high & 7 ft base alongside.
	From 1/4 sec. cor. J. Waring's house bears S 79° W
	Stone cabin bears N 28° 40' E
40.80	Wagon road bears N 10° W and S.E.
8.00	The cor. to secs. 25, 26, 35 and 36
	Land, nearly level; soil sandy loam 1st and 2nd rate.
	No timber.
	Dense artemesia undergrowth on 8000 chs.

N 0° W bet secs. 25 and 26

Sa 14° 38' E

	Over nearly level ground, through dense artemesia undergrowth
26.60	Descend over steep broken ground
35.00	Enter heavy scrub cedar timber; leave undergrowth
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 16x11x5 ins, in a mound of stone 1 1/2 ft high, 2 ft. base, for 1/4 sec. cor. marked 1/4 on W face; Pits 18x18 ins. No bearing trees available.
40.10	Walk in gulch 100 ft deep bears N.W.; then ascend over W slope of hill
47.00	Wagon road bears S.E. and W
50.00	Set a sandstone 17x10x3 ins, 12 ins in the ground, for cor. to secs. 2, 3, 24, 25 and 26, marked with 2 notches on S, and 1 notch on E edge; raised a mound of stone, 1 1/2 ft

Subdivision of T. 24 S. R. 24 E. Ad. M.

high, 2 ft base alongside. Pits up. No heavy trees available.

Land mountainous and level; soil sandy and stony 4th rate and sandy loam 1st rate. on P.
%

Heavy scrub cedar timber, or dense artemesia undergrowth on 80.0 chs.

Mountainous on 53.40 chs.

E on a random line bet. secs 24 and 25

Va 14° 59' E

40.00 Set a temporary 1/4 sec. cor.

Intersect E bdy of 1/4 10 chs N of cor. to secs. 19, 24, 25 and 30.

Thence down, N 89° 56' W on a true line bet. secs. 24 and 25

Va 14° 59' E

descend steep slope

4.00 Foot of mountain 250 ft below cor; enter dense artemesia undergrowth.

15.00 Trail to m Dolores river bears N.E. or S.W.

21.10 Couler bears S.E.

40.05 Set a sandstone 22x15x4 ins 17 ins in the ground for 1/4 sec. cor, marlled 1/4 on N face; dug pits 18x18x12 ins. E and W of stone, 5 1/2 ft dist. and raised a mound of earth 1 1/2 ft high 3 1/2 ft base alongside.

From 1/4 sec. cor. stone cabin bears N 28° 45' E

67.10 Couler bears S.E.

75.00 Enter heavy scrub cedar timber, leave undergrowth.

80.10 The cor to secs. 23, 24, 25 and 26

Land level and mountainous; soil sandy 2nd rate and stony 4th rate.

Heavy scrub cedar timber, or dense artemesia undergrowth on 76.10 chs.

Mountainous on 4.00 chs.

N 0° 0' W bet secs. 28 and 29

Va 14° 55' E

Gradually ascending through heavy scrub

Subdivision of T. 24 S. R. 24 E. A. L. M.

	cedar timber
15.00	Leave cedar timber; enter dense artemesia undergrowth
39.00	Coulier bears S.E.
40.00	Set a sandstone 18x15x4 ins. 12 ins in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face, raised a mound of stone, $1\frac{1}{2}$ ft high, 2 ft base along sides. Pits imp.
43.00	Enter heavy scrub cedar timber; leave undergrowth.
74.00	Foot of abrupt ascent.
- 80.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 19x6x6 ins. in a mound of stone $1\frac{1}{2}$ ft high 2 ft base for cor to secs. 10, 14, 23 and 24, marked with 3 notches on S, and 1 notch on E edge. Pits imp. No bearing trees available. Land smooth, gradually ascending and mountainous. Soil sandy loam 2 nd rate and stony 4 th rate. Heavy scrub cedar timber or dense artemesia undergrowth on 80.00 chs.
	S. 89° 56' E on a random line bet. secs 18 and 24
	Va 14° 35' E
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.05	Intersect E bdy of Tp. 7 1/2 ms S of cor to secs 13, 18, 19 and 24. Thence turn N 89° 59' W on a true line bet secs 18 and 24
	Va 14° 35' E
	Descending through scrub cedar timber along N slope of mountain
40.02	It is impracticable to set a stone in the ground, I therefore set a sandstone 18x16x4 ins in a mound of stone, $1\frac{1}{2}$ ft high h. 2 ft base, for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on N face. Pits imp. No bearing trees available.
80.05	The cor. to secs. 13, 14, 23 and 24.

Subdivision of 9.24 S. R. 24 E. D.L.M.

Land mountainous; soil stony.

Pine bar, scrub cedar.

Mountainous on 80.00 chs.

Aug 4th 1894

I begin on the N side of the Top at the cor to secs. 2, 3, 34 and 35.

Thence down, N 0° 0' W bet secs. 34 and 35

Va 14° 43' E

Through dense artemesia undergrowth over nearly level ground.

6.00 Enter heavy scrub cedar timber; leave undergrowth.

12.50 Wash in gulch 60 ft deep bears N 30° E

25.00 Wash in gulch 100 ft deep bears N.E.

30.00 Leave cedar timber; enter dense artemesia undergrowth

40.00 Set a sandstone 16x12x4 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face, dug pits 18x18x12 ins. N and S of stone, 5 $\frac{1}{2}$ ft dist. and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base alongside. Descend steep slope; enter heavy scrub cedar timber.

67.00 Wash in gulch 100 ft deep bears N.E.

77.50 Top of sharp ridge bears N.E.

80.00 Set a sandstone 20x6x5 ins., 15 ins. in the ground, for cor. to secs. 26, 27, 34 and 35 marked with 1 notch on N. and 2 notches E edge, raised a mound of stone, 1 $\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp. No bearing trees available.

Land level and broken; soil sandy loam and stony 2nd and 4th rate.

Heavy scrub cedar timber in dense artemesia undergrowth on 80.00 chs.

E on a random line bet secs 26 and 35

Va 14° 40' E

4000 Set a temporary $\frac{1}{4}$ sec. cor.

Subdivision of T. 24 N. R. 24 E. D. S. M.

79.96	Entered N and Olive 3 lots N of cor. to secs. 25, 26, 35 and 36. Thence SW, N 89° 59' W on a true line bet. secs. 26 and 35 Va 14° 40' E
	Over level ground through dense artemesia undergrowth
11.50	Coule bears N
14.00	Leave undergrowth, descend steep broken ground.
29.00	Salt crust (dry) 200 ft below sec. cor. bears N.
39.98	Set a sandstone 17x12x7 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N face; raised a mound of stone 1 1/2 ft. high, 2 ft base along sides. Pits imp. Ridge 150 ft high.
49.00	Wash in gulch 100 ft deep bears N.E.
78.75	Sharp ridge, descend to
79.96	The cor to secs. 26, 27, 34 and 35. Land, level and mountainous; soil sandy loam and stony 2 nd and 4 th rate. Scattering cedars on line. Mountain air on 65.96 chs. Dense artemesia undergrowth on 14.00 chs.

Aug 6th 1894

General Description of T. 24 S. R. 2 E. D. L. N.W.

The surveyed portion of this township known as Fisher Valley is peculiarly located, being almost level and having a drainage outlet both E and W, and being surrounded on the N. E. and S. sides by high cliffs.

The soil is sandy loam, producing good crops of hay, grain and fruit with irrigation.

Water is furnished from Fisher creek and through a ditch 6 miles long from Beaver creek.

The mean declination of the Plat is 140° 59' E.

J. Waring lives in Sec. 36. He has a wire fence around 320 acres of land, approximating, in location, the W $\frac{1}{4}$ of sec. 36. He has ditches and a water supply sufficient for irrigating about 100 acres. His improvements are worth \$1000⁰⁰.

Prescot & Stevens has a house about $\frac{1}{4}$ mile S.E. of the S.E. cor of the township.

He has about 3 miles of fence and 10 miles of irrigating ditches. He cultivates about 100 acres of land which is mostly in the S.E. $\frac{1}{4}$ sec. 36.

His improvements are valued at \$2500.

I was unable to ascertain the location of desert entries nos. 1242, 1469 and 1927.

C. C. Adrich and Matt Martin, applicants for the survey, live in Little Castle valley T. 24 S. R. 2 E. They both have permanent and valuable improvements.

The remaining applicants have removed from this vicinity.

Frank E. Baxter
U. S. Dep. Surveyor

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ist of Names.

A list of the names of the individuals employed by
....., U. S. Deputy Surveyor, to assist in running, measuring, and
ing the lines and corners described in the foregoing field notes of the survey of the

..... Meridian, in , showing
espective capacities in which they acted :

Final Oath of Assistants:

We hereby certify that we assisted
....., U. S. Deputy Surveyor, in surveying all
parts or portions of the

..... Meridian, , as are represented in the
ing field notes as having been surveyed by him and under his direction; and that said survey has been in all
ts, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
ing to the instructions furnished by the U. S. Surveyor General for

cribed and sworn-to before me this }
day of , 18 }



1140 Blk

Final Oath of Surveyor.

I, _____, U. S. Deputy Surveyor, solemnly swear that, in pursuance of instructions received from _____, U. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in conformity with the instructions furnished by the U. S. Surveyor General for _____, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the going field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that the corners of said survey have been established and perpetuated in strict accordance with the surveying printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Co approved August 8, 1846.

U. S. Deputy S

Subscribed and sworn to before me this _____
day of _____, 18_____ }



Approval.

Office of the U. S. Surveyor General,

Salt Lake City, Utah June 1, 1895

The foregoing field notes of the survey of the subdivision of Section 124, S. P. 9, of the Salt Lake Range & Meridian;

Frank C. Barker
under his Contract No. 194, dated January 18th, 1894, having been examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe hereby approved.

George W. Wood
U. S. Surveyor Gen.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor G. .

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Vol. 3, B.

FIELD NOTES

OF THE SURVEY OF

Park of Colorado Guide Meridian, through
Townships 28 South

Of the Salt Lake Meridian,

Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

Under his Contract No. 196, dated January 18th, 1894.

Survey commenced August 13th, 1894.

Survey completed August 19th, 1894.

41 100001

Names and Titles

Samuel M...: Plaintiff
Wallace Watson " "
Edward Redmond " "
John Dallie " "
Edward Redmond Axeman
Lovell Wells Plaigneur

Volume

R0236

INDEX DIAGRAM.

Colorado Guide Meridians 9 through
Township 28 S., Ranges 3 and 24 E.

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31	32	33	34	35	36	

Meanders Page.....

We,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainmen

, Chainman

, Chainman

, Chainman

Subscribed and sworn to before me this }
day of , 18 . }

We,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this }
day of , 18 . }

Part of Colorado Guide Meridian Through R 28 D. U.S.M.

Previous to starting the survey of R 27 D R 23 E. I go to the cor to secs. 7, 12, 13 and 18 of R 28 D. on the Colorado Guide Meridian. I then run N on the said meridian to the cor to secs. 7, 12, 13 and 18 of R 28 D, finding all the corners in place and the line plainly blazed through the timber. At this point, all traces of the line disappear and I am unable to find any more corners N of this though I run the line 2 miles further N and make diligent search for all the corners.

Survey commenced Aug 13th 1894. Having previously put my transit and chain in adjustment, I set my instrument over the cor to secs. 7, 12, 13 and 18 of R 28 D on the Colorado Guide Meridian which is a sandstone 22x10x3 ins firmly set, marked with 2 notches on N, and 4 notches on S edge from which

A pinon tree 7 ins in diam. bears N 52° E 14' 11" dist. marked R 28 D R 24 E. 17 B. 9.

A pinon tree 8 ins in diam. bears S 19° W. 26' 4" dist. marked R 28 D R 23 E. 013 B. 9.

A cedar tree 9 ins in diam. bears N 07 1/2 W 47' 11" dist. marked R 28 D R 23 E. 012 B. 9.

I made the following obs on the sun at 9:00 A.M. Aug 13th 1894. Lat. 38° 2' 15" alt.

Sun angle right.

43° 26'	108° 05'
---------	----------

43° 39'	108° 21'
---------	----------

43° 51'	108° 36'
---------	----------

<u>44° 02'</u>	<u>108° 48'</u>
----------------	-----------------

Sum 174° 58' ✓	Sum 433° 50' ✓
----------------	----------------

Mean 43° 44 1/2' ✓	Mean 108° 27 1/2' ✓
--------------------	---------------------

Ref - 1'
 $h = 43^{\circ} 43 \frac{1}{2}'$

Part of Colorado Guide Meridian Through 9281.0.2.

Unsighted Aug 13 (ephem) $14^{\circ} 36' 28.7''$ V
 Sub. 45.84x4 $\underline{3' 03.4''}$ ✓
 Sctd Aug 13² 9 A.M. $14^{\circ} 33' 25''$ ✓

$$P.D. = 90^{\circ} - 14^{\circ} 33' 25'' = 75^{\circ} 26' 35'' \checkmark$$

$$\begin{array}{ll} L \log \cos \text{ of } & 38^{\circ} 23' 10'' \checkmark \\ h \quad " \quad " \quad " & 43^{\circ} 40' 30'' \checkmark \\ 2 D. = & 107^{\circ} 33' 20'' 19.753184 (a) \\ & \frac{1}{2} = 9.876592 (b) \end{array}$$

$$\begin{array}{ll} D, \log \cos \text{ of } & 78^{\circ} 46' 40'' = 9.289176 \checkmark \\ D.P.D. \quad " \quad " \quad " & 30^{\circ} 20' 05'' \underline{= 9.999265} \checkmark \\ \text{sum} & 19.288441 \checkmark \\ \frac{1}{2} = & 9.644220 \checkmark \\ \text{Sub. (b)} & \underline{9.876592} \checkmark \end{array}$$

$$\frac{1}{2} Z \log \cos \text{ of } 54^{\circ} 09' 07'' = 9.767628 \checkmark$$

$$Z = 108^{\circ} 18' 14''$$

Angle right $\underline{108^{\circ} 27' 30''}$

Diff bearing of adj. line $N 09\frac{1}{4}^{\circ} W$,

Turn off $9\frac{1}{4}$ right, and the mag. bearing of the true meridian is $N 14^{\circ} 51' W$; the mean declination, then, is $14^{\circ} 48' E$.

X

Thence down, N. bet secs 7 and 12

VA $14^{\circ} 51' E$

Ascending through heavy cedar and pinyon timber

- | | |
|-------|---|
| 0.10 | Coulter bears W |
| 13.20 | Wash in gulch 50 ft deep bears W. |
| 29.70 | Coulter bears S.W. |
| 38.60 | Ridge bears N.E. and S.W. |
| 40.00 | Set a sandstone 20 x 12 x 3 ins, 15 ins in the ground for $\frac{1}{4}$ sec. cov. marlled $\frac{1}{4}$ on W face, from which |
| | A cedar tree 12 ins in diam bears $148\frac{1}{2}^{\circ} E$ |
| | 55 lbs dist. marlled $\frac{1}{4}$ D.B.T. |
| | A cedar tree 17 ins in diam bears $105^{\circ} W$ |
| | 67 lbs dist. marlled $\frac{1}{4}$ D.B.T. |
| 44.00 | Coulter bears S.W. |
| 50.30 | Coulter bears S.W. |
| 74.20 | Wash in gulch 50 ft deep bears S.W. |
| 80.00 | It is impracticable to set a star in the |

Part of Colorado Guide Meridian Through 9280 S.L.M.

ground, I therefore set a sandstone
 16x8x5 ins in a mound of stone 1 $\frac{1}{2}$ ft
 high, 2 ft base for cor to secs 16, 7 and
 12, marked with 5 notches on N, and
 5 notches on S edge, from which
 A pinon tree 11 ins in diam. bears N 55 $\frac{1}{2}$ E
 56 lms dist. marked 9280 R 24 E 0 6 B.T.
 A pinon tree 5 ins in diam. bears 0 22 E 39
 111ms dist. marked 9280 R 24 E 0 7 B.T.
 A pinon tree 18 ins in diam. bears P 74 W
 103 lms dist. marked 9280 R 23 E 0 13 B.T.
 A pinon tree, 7 ins in diam. bears N 39 $\frac{1}{2}$ W
 63 lms dist. marked 9280 R 23 E 0 1 B.T.
 Sand rolling; soil stony 3rd and 4th rate
 Heavy cedar and pinon timber on 8.000 ch.

N. bet. secs 1 and 6

Va 14 $^{\circ}$ 44' E

Ascend through heavy cedar and pinon
 timber

- | | |
|-------|---|
| 8.00 | Wash in gulch 6.0 ft deep, bears W. |
| 12.47 | A pinon tree 9 ins. in diam., a live tree,
marked with 2 notches on N and S sides. |
| 21.00 | Wash in gulch 6.0 ft deep bears S.W. |
| 32.50 | Ridge bears 0 70° W. |
| 34.00 | Leave timber; enter dense oak and
spruce undergrowth. |
| 40.00 | It is impracticable to set a stone in
the ground, I therefore set a sandstone
18x18x6 ins in a mound of stone, 1 $\frac{1}{2}$ ft
high, 3 ft base for $\frac{1}{4}$ sec. cor. marked
$\frac{1}{4}$ on W face. Bits imp. |
| 77.00 | Enter heavy pinon and cedar timber |
| 80.00 | It is impracticable to set a stone in the
ground, I therefore set a sandstone 21x14x8
ins in a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft
base for cor to Tps 27 and 28 B. Rs 23 and
24 E, marked with 6 notches on the N, E,
S and W edges, from which. |
| | A cedar tree 6 ins. in diam. bears N 72° E
32 lms dist marked 9270 R 24 E 0 31 B.T. |

Part of Colorado Guide Meridian Through T28 S. D.L.M.

A cedar tree 18 ins. in diam. bears $066^{\circ} 34' E$
118 lbs disk, marked T28 S R24 E P6 139.
A piñon tree 20 ins. in diam., bears $W63^{\circ} W$.
198 lbs disk, marked T28 S R24 E P36 039.
No other tree in limit.

Land, mountainous, soil stony 4th rate.
Heavy piñon and cedar timber or dense
undergrowth on 80.00 chs.

Aug 13th 1894

It is my belief that this portion of the Colo. G. M had never been run, because all signs of the line suddenly disappear at the cor to secs. 7, 12, 13 and 18, though the line is very plainly marked for 6 miles S, for which distance I retraced it.

Upon examination of the original field notes of the old survey in the office of the Genl. Geol. I find that the topography of this portion of the line does not agree with the facts.

The most glaring discrepancy is on the line bet secs 1 and 6 in which at 35.00 chs Cain Creek (or Cain Spring Wash) is called for.

The fact is that the west southerly branch of Cain Creek crosses the Colo. G. M at 2.10 chs on the line bet Secs 31 and 36 T27 S. In the old notes, the cor to Tps 27 and 28 S R23 and 24 E is described as being on edge of plateau bearing S.W.

The only topographical feature that could be termed edge of plateau is at 6300 chs on the line bet. secs. 31 and 36 T27 S.

General Description

The land W of this line is mountainous and rolling, covered, largely with cedar and piñon timber or sage brush.

It affords fair pasture for stock.

The soil is mostly sandy loam excepting on the ridges where it is stony.

Frank E. Baxter

U. S. Dep. Geol. Surv.

List o f Names.

A list of the names of the individuals employed by
....., U. S. Deputy Surveyor, to assist in running, measuring, and
ing the lines and corners described in the foregoing field notes of the survey of the

..... Meridian, in , showing
espective capacities in which they acted :

Final Oath of Assistants:

We hereby certify that we assisted
....., U. S. Deputy Surveyor, in surveying all
parts or portions of the

..... Meridian, , as are represented in the
going field notes as having been surveyed by him and under his direction; and that said survey has been in all
cts, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
rding to the instructions furnished by the U. S. Surveyor General for

cribed and sworn to before me this }
day of , 18 }



Final Oath of . . . Deputy Surveyor.

I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the _____ going field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

U. S. Deputy Surveyor.

Subscribed and sworn to before me this _____ }
day of _____, 18_____ }



Approval.

Office of the U. S. Surveyor General,

Salt Lake City, Utah June 6, 1895.

The foregoing field notes of the survey of a part of the Colorado River Meridian in Township 28 South Range 23 East of the Salt Lake Base Meridian, T10 S.

executed
Frank E. Baxter
under his Contract No. 196, dated January 10th, 1894, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, hereby approved.

George W. Snow
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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No. 3. B.

FIELD NOTES

OF THE SURVEY OF

The Colorado Guide Meridians 9 through
Township 27 South

Of the Salt Lake Meridian,

Utah Territory

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

under his Contract No. 196, dated January 18th, 1894

Survey commenced August 13th, 1894.

Survey completed August 15th, 1894.

H 5,73:01
E 7,001

Names and Duties of Com'nts.

James Morris	Chairman
Wallace Watson	"
Edward Redmond	"
John Dallin	"
Edward Redmond	Axeman
Lovell Wells.	Flagman

INDEX DIAGRAM.

The Colorado Guide Meridian
 Township 27 S., Ranges 23 & 24 E.

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19	20	21	22	23	24	19
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31	32	33	34	35	36	31

Meanders Page.....

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this _____ }
day of _____, 18 _____. }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the _____

Subscribed and sworn to before me this _____ , Axeman.
day of _____, 18 _____. } _____, Axeman.

Colorado Guide Meridian Through P. S. T. D. N.W.

Survey commenced Aug 13th 1894
 Obs on Sun Aug 13th, 1894: Time 4 P.M.
 Instrument at corr to 9 ps 27 and 28.
 Ps 23 and 24 E hereinbefore described.
 Lat. $38^{\circ}25'N$, long $109^{\circ}21'W$.

Dmiss Alt.	Hor angle left.
$37^{\circ}11'$	$100^{\circ}06'$
$37^{\circ}03'$	$99^{\circ}58'$
$36^{\circ}55'$	$99^{\circ}51'$
<u>$36^{\circ}48'$</u>	<u>$99^{\circ}43'$</u>

Dmiss $147^{\circ}57' \checkmark$ Dmiss $39^{\circ}38' \checkmark$
 Mean $36^{\circ}59'15'' \checkmark$ Mean $99^{\circ}54'30'' \checkmark$

$$\text{Ref} = 116' \checkmark$$

$$L \text{ (mag)} 36^{\circ}58' \checkmark$$

$$\text{Dmiss decl Aug 13th (ephem)} + 14^{\circ}36'28.7''$$

$$\text{Sub. } 45.8'' \quad 8'24' \checkmark$$

$$\text{Decl } 40.28' \text{ Aug 13th (ephem)} 14^{\circ}28' \checkmark$$

$$P.D. - 90 - 14^{\circ}28' = 75^{\circ}32'$$

$$L, \log \cos \text{of. } 38^{\circ}25' = 9.894046 \checkmark$$

$$L, " " " 36^{\circ}58' = 9.902539 \checkmark$$

$$20. \quad 150^{\circ}55' 19.796585 \text{ (a)}$$

$$\text{f}(a) = 9.898292 \text{ (b)}$$

$$0, \log \cos \text{of. } 75^{\circ}27'30'' = 9.399819 \checkmark$$

$$D.P.D., " " " 04'30'' = 10.000000 \checkmark$$

$$19.399819 \checkmark$$

$$\frac{1}{2} = 9.699909 \checkmark$$

$$\text{Sub. } 16) \quad 9.898292 \checkmark$$

$$\frac{1}{2} Z \log \cos \text{of. } 50^{\circ}42'15'' = 9.801617 \checkmark$$

$$Z = 101^{\circ}24'30'' \checkmark$$

$$H \text{ or angle left } \underline{99^{\circ}54'30''}$$

diff. is bearing of ref line. $N 1^{\circ}30' W \checkmark$

I lay off $1^{\circ}30' E$ and find the mag bearing of the true meridian is $N 14^{\circ}46' W$, and the mean declination is $14^{\circ}48' E$.

Whence I am N lat sec. 31 and 36

$$Va. 14^{\circ}46' E$$

Through heavy cedar and piñon timber.
 Wash in gulch 50 ft deep bears $N 30^{\circ} W$
 A piñon tree, 7 ins in diam., a live tree,
 marked with 2 notches on N and S sides.

2.10

10.40

Colorado Guide Meridian Through 927D. U.S.M.

13.20	Coule bears N. 80° W
29.20	Coule 25 ft deep bears W; ascend.
40.00	Set a sandstone 14x8x5 ins. 10 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face, from which A cedar tree, 10 ins. in diam, bears N 76° E 32 lbs disk, marked $\frac{1}{4}$ P.B.T.
	A cedar tree, 8 ins. in diam, bears N 36½° W 56 lbs disk, marked $\frac{1}{4}$ P.B.T.
40.30	Wash in gulch soft deep bears N 60° W
44.50	Ridge, 75 ft. above $\frac{1}{4}$ sec. cor., bears N. E.
47.00	Wash in gulch 50 ft deep bears S. W.
61.00	Leave timber
63.00	Top of ridge, bears E, 400 ft above $\frac{1}{4}$ sec cor
75.30	Wash in gulch 100 ft deep bears W
79.00	Top of hill bears N 60° W
80.00	It is impracticable to set a stone in the ground, I therefore set a trachite stone 17x8x5 ins. in a mound of stone 1½ ft high, 2 ft base, for cor to secs. 25, 30, 31 and 36, marked with 3 notches on N and 1 notch on P edge. Sand mountainous; soil stony 4 th rate Timber cedar.
	Mountainous on 80.00 chs.

Aug 13th, 1894

	N but secs. 25 and 30 Va 1405½° E
15.50	Wash in gulch 40 ft deep bears W.
27.50	Top of hill bears E and W; descend steep slope.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 16x8x4 ins in a mound of stone 1½ ft high, 2 ft base, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; Pits imp.
56.00	Enter heavy cedar and pine timber.
66.00	Leave timber and enter dense oak undergrowth.
70.60	Road to Moab bears W.; foot of steep descent.

Colorado Guide meridians Through 97.27A. S.D.W.

72.47	Barbour's fence bears N 30° E
75.00	Fence bears N 30° E; leave undergrowth.
75.20	Part b. creek, stream 30 ft wide 6 ins deep course N 60° W. This point is 800 ft below top of hill; ascend.
78.00	Barbour's house 30 ft N E of line.
79.80	Fence bears N 60° W,
80.00	Marked a cross at exact cor point, with 4 notches on N and 2 notches on S of cross on a sandstone boulder 4 x 3 1/2 x 1 ft above ground, for cor to secs. 19, 24, 25 and 30 and raised a mound of stone 1 1/2 ft high 2 ft base along side. Pts nipp. Lands mountainous; soil stony 4 th rate. A small strip along creek, loam 1 st rate. Timber Cedar and Juniper. Mountainous on 80.00 chs.

N bet. secs. 19 and 24

Va 14052' E

Through cultivated land

7.00	Leave cultivated land; enter heavy cedar and piñon timber. Ascend.
14.58	A cedar tree, 12 ins in diam, a live tree, marked with 2 notches on N and S sides.
17.60	Wash in gulch 50 ft deep bears W.
26.60	Wash in gulch 40 ft deep bears S 70° W
37.00	Wash in gulch 50 ft deep bears W.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 15 x 14 x 6 ins, in a mound of stone 1 1/2 ft high, 2 ft base, for 1/4 sec cor., marked 1/4 on W face, from which.
	A piñon tree 5 ins in diam. bears N 69° W
	21 ft dist. marked 1/4 D.B.H.
	A piñon tree 6 ins. in diam bears N 32 1/2° E
	25 ft dist, marked 1/4 D.B.H.
46.00	Point of ridge bears E.
52.50	Wash in gulch, 75 ft deep bears S W.
64.00	Wash in gulch 60 ft deep bears from E to SW.
72.00	Wash in gulch 70 ft deep. bears W.

Colorado Guide Meridian. Through 9270. D.S.M.

7800	Wash in gulch 70 ft deep bears S.W.
8000	Set a sandstone 14x8x5 ins, 10 ins in the ground for cor to secs. 13, 18, 19 and 24, marked with 3 notches on N and S sides, from which
	A piñon tree 6 ins. in diam. bears N $16\frac{1}{2}^{\circ}$ E 65 lks dist. marked 9270 R 24 E 18 B.9.
	A piñon tree 7 ins in diam. bears N $57\frac{1}{2}^{\circ}$ E 29 lks dist, marked 9270 R 24 E 0 19 B.9.
	A cedar tree 12 ins in diam., bears N $52\frac{1}{2}^{\circ}$ W 25 lks dist; marked 9270 R 23 E 0 24 B.9.
	A piñon tree, 14 ins in diam bears N 63° W 41 lks dist; marked 9270 R 23 E 0 13 B.9.
	Land mountainous and level; soil stony 4th rate and sandy loam 1st rate.
	Timber Cedar and piñon.
	Mountainous on 73.00 chs.

N bet. secs. 13 and 18

Va $140^{\circ} 38'$ E

8.50	Through heavy cedar and piñon timber, ascending.
23.00	Wash in gulch 60 ft deep, bears S.W.
30.00	In diam trail bears N.E. and S.W.
39.90	Wash in gulch 40 ft deep, bears S 70° W.
40.00	Wash in gulch 40 ft deep bears S 60° W.
	Set a sandstone 18x10x8 ins, 12 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face, from which
	A cedar tree 10 ins. in diam bears N 21° W 16 lks dist, marked $\frac{1}{4}$ 0 B.9.
	A piñon tree 5 ins in diam bears S 10° E 60 lks dist, marked $\frac{1}{4}$ 0 B.9.
54.50	A cedar tree, 9 ins in diam, a live tree marked with 2 notches on N and S sides
57.83	A piñon tree 20 ins in diam, a live tree marked with 2 notches on N and S sides.
59.20	Wash in gulch 30 ft deep, bears S.W.
79.80	A piñon tree 22 ins in diam a live tree marked with 2 notches on N and S sides. Leave timber and enter dense oak under-

Colorado Guide Meridian through 9270. S. L. M.

growth

- 8000 Set a sandstone 18x10x6 ins., 12 ins in the ground for cor to secs. 7, 12, 13 and 18 marked with 2 notches on N, and 4 notches on S edge, from which a piñon tree 10 ins in diam. bears N 42° W 42 ft dist, marked 927 A.R. 23 E D 12 B.T. A piñon tree 9 ins in diam. bears 0 30° W 19 ft dist, marked 927 A.R. 23 E D 13 B.T. Pits nipp. No other trees in limit.

Land, mountainous; soil atony 4th rate. Heavy cedar and piñon timber or dense oak undergrowth on 80.00 chs.

Aug 14th 1894

N lies secs 7 and 12

la 14042' E

Through dense oak and spruce under-growth

- 2.00 Wash in gulch 25 ft deep bears W.
- 15.00 Enter heavy cedar and piñon timber; leave undergrowth.
- 16.40 Wash in gulch 20 ft deep bears S.W.
- 29.00 Ridge bears E and W; descend steep slope
- 37.00 Leave timber; enter dense oak and spruce undergrowth.
- 40.00 It is impracticable to set a stone in the ground, I therefore set a sandstone 17x10x6 ins in a mound of stone 1½ ft high, 2 ft base, for ¼ sec. cor., marked ¼ on W face. Pits nipp.
- 43.20 S. Fork of North Park creek (dry) 400 ft below last ridge. Creek bears W.
- Enter heavy cedar and piñon timber
- 53.00 Point of ridge bears E
- 55.00 N. Fork of North Park creek bears S.W.
- The creek at this point is in a gorge 100 ft wide and 100 ft deep. There is pure living water 5.00 chs E of line in creek. Ascend steep slope.
- 63.07 A piñon tree 10 ins. in diam, a live tree,

Colorado Guide Meridian Through T. 27.0. U. S. M.

	marked with 2 notches on N and edges. Top of mountain 400 ft above creek bed C and W.
7100.	A cedar tree 22 ins. in diam., a live tree, marked with 2 notches on N and D sides.
79.48	Let a trachite stone 20x10x5 ins. 10 ins in the ground for cor to secs. 1, 6, 7 and 12 marked with 1 notch on N and 5 notches on D edge, from which
8000	A cedar tree 18 ins in diam. bears N 66° E 32 lfts dist. marked 927 A R 24 E 0 6 B 9. A cedar tree 10 ins in diam. bears. P 45° E 19 lfts dist, marked 927 A R 24 E 0 7 B 9. A cedar tree 10 ins in diam. bears P 29° W 62 lfts dist. marked 927 A R 23 E 0 12 B 9. A cedar tree, 18 ins in diam., bears N 26° W 59 lfts dist. marked 927 A R 23 E 0 1 B 9. Sand mountainous; soil stony. 3' sand 4' shale. Heavy cedar and piñon timber or dense oak undergrowth on 80.00 chs.

	N lat. sec 1 and 6 60 14° 42' E
	ascend gradually through heavy cedar and piñon timber
41000	Let a sandstone 15x10x4 ins. 10 ins in the ground, for 1/4 sec. cor., marked 1/4000 W face; from which
	A cedar tree 4 ins in diam. bears P 35° E 52 lfts dist marked 1/40 B 9.
	Piñon tree 7 ins. in diam bears P 77° W 64 lfts dist. marked 1/40 B 9.
41,28	A piñon tree 12 ins in diam., a live tree marked with 2 notches on N and D faces. Top of hill bears E and W. Live timber and water dense oak undergrowth. It is impossible to cross Mill Creek canon at this point. I therefore measure a base 10 chs E and west. flag across canon From E end of base, flag bears W 17° W
50.00	

Colorado Guide Meridian Through T92 R70 S. D. M.

The distance is $\cot 17^{\circ}15' \times 10 = 3.220 \times 10 = 32.20$ chs. The whole distance is $50 + 32.20 = 82.20$ chs. I then measure 0 2.20 chs from Flag and at

- 80.00 It is impracticable to set a stone in the ground, I therefore set a sandstone 18x18x6 ins. in a mound of stone 17 ft high, 2 ft base, for cor to Tps 26 and 27 D.R's 23 and 24 E, marked with 6 notches on each edge, from which
 A pinon tree 12 ins in diam. bears N 45° W 12.66 dist. marked T 26 D R 23 E D 36 B 9.
 A cedar tree 12 ins. in diam, bears S 76° W 80.66 dist, marked T 27 D R 23 E D 1 B 9.
 No other bearing trees in limit.
 Whole line mountainous; soil stony 3rd and 4th rate. Hill creek crosses the line at about 70.00 chs, the creek is about 1000 ft below top of hill at 4112.8 chs. The Tp cor is about 700 ft above creek.
 Hacking cedar and pinon timber or oak undergrowth over 80.00 chs.
 Mountainous on 80.00 chs.

Aug 15th, 1894.

For general description see subdivision notes of this township.

Frank E. Baxter
U. S. Dep. Surveyor

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LITERATURE AND ANTIQUES.

A list of the names of the individuals employed by _____, U. S. Deputy Surveyor, to assist in running, measuring, and setting the lines and corners described in the foregoing field notes of the survey of the _____.

..... Meridian, in , showing
respective capacities in which they acted :

Final Oath of Assistants:

We hereby certify that we assisted _____, U. S. Deputy Surveyor, in surveying all
the parts or portions of the _____.

..... Meridian,, as are represented in the
going field notes as having been surveyed by him and under his direction; and that said survey has been in all
parts, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
according to the instructions furnished by the U. S. Surveyor General for

scribed and sworn to before me this _____
day of _____, 18 _____. } }



I, _____, U. S. Deputy Surveyor,
solemnly swear that, in pursuance of instructions received from _____, U.
Surveyor General for _____, bearing date of the _____ day
_____, 18_____, I have well, faithfully, and truly, in my own proper person, and in
conformity with the instructions furnished by the U. S. Surveyor General for _____,
surveying manual, and the laws of the United States, surveyed all those parts or portions of

Meridian, in the _____, as are represented in the f
going field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that
the corners of said survey have been established and perpetuated in strict accordance with the surveying
printed instructions, the special written instructions of the U. S. Surveyor General for _____
and in the specific manner described in the field notes, and that the foregoing are the true field notes of such
and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Cong.
approved August 8, 1846.

Subscribed and sworn to before me this _____ }
day of _____, 18_____. }

U. S. Deputy Surveyor.



Approval.

Office of the U. S. Surveyor General,

Salt Lake City, Utah

January 6th, 1895

The foregoing field notes of the survey of the Colorado Guide Meridian
through the 2d South of the Salt Lake Base Line
are approved.

Frank D. Barker
executed
under his Contract No. 196, dated January 18th, 1894, having been critically
examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are
hereby approved.

George W. Gould
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____
has been correctly copied from the original notes on file in this office.

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W.H.
J.L.S.

No. 3, B.

FIELD NOTES

OF THE SURVEY OF

The Exterior Lines of Township 27 South
 Range 23 East

Of the Salt Lake Meridian,

Utah Territory

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

under his Contract No. 196, dated January 18th, 1894.

Survey commenced Aug. 17th, 1894.

Survey completed Sept 4th, 1894.

n-2-700) 6-151

C.P.B.	5.0000
P.P.B.	5.0000
R.C.	82.72

Names and Duties of Assistants.

<u>Daniel Morris</u>	<u>Chairman</u>
<u>Wallace Watson</u>	<u>Chairman</u>
<u>Edward Redmond</u>	<u>Auxiliary</u>
<u>Lowell Wells</u>	<u>Flagman</u>

INDEX DIAGRAM.

Township 27 N., Range 23 E.

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				<i>2</i>	<i>1</i>

Meanders Page.....

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 18 }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this , Axeman.
day of , 18 , Axeman.

South Boundary of T 27 S. R 23 E. D.L.W.

Survey commenced Aug 17th 1894.
I begin at the cor. to T ps 27 and 28 & R 23
23 and 24 E - then cr I am.
W on a tree line bet. secs. 1 and 36
Va 14° 05' E

Through heavy cedar and piñon timber
and oak undergrowth.

- 6.40 Wash in gulch 20 ft deep bears N.
11.00 Top of low hill bears N and S; descend
16.42 A cedar tree, 10 ins in diam., a live tree
marked with 2 notches on E and W sides.
21.00 Wash in gulch 60 ft deep bears from S.E. to
N. then along gulch to
26.00 Leave wash in gulch bears N 70° W
40.00 Set a sandstone 14x11x6 ins, 10 ins in the
ground for 1/4 sec. cor.; marked 1/4 on N
face, from which.
A piñon tree 12 ins in diam. bears N 54° E
26 lks dist marked 1/4 D.B.G.
A piñon tree 7 ins in diam. bears N 41° W
18 lks dist, marked 1/4 D. B.G.
80.00 Set a sandstone 21x6x5 ins 16 ins in the
ground for cor. to secs. 1, 2, 35 and 36,
marked with 1 notch on E, and 5 notches
on W edge; from which
A piñon tree 12 ins. in diam bears N 52° E
68 lks dist marked T 27 S. R 23 E D 36 B.G.
A cedar tree 14 ins. in diam. bears D 20° E
125 lks dist marked T 28 S R 23 E D 1 B.G.
A piñon tree 5 ins in diam. bears D 49° W
12 lks dist marked T 28 S R 23 E D 2 B.G.
A piñon tree 5 ins. in diam. bears N 26° W
16 lks dist, marked T 27 S. R 23 E D 35 B.G.
Sand hilly and rolling; soil stony & late.
Heavy cedar and piñon timber on 80.00 obs

W on a tree line bet. secs. 2 and 36

Va 14° 04' E

Ascend through heavy cedar and piñon
timber

Top of hill 100 ft above last sec. cor;

South Boundary of T 27 S. R 23 E. O. L. M.

	des cond.
40.00	Set a sandstone 14x10x5 ins. 1.0 ins in the ground, for $\frac{1}{4}$ sec. cov. marked $\frac{1}{4}$ on N face; from which A cedar tree 6 ins. in diam. bears $N 10^{\circ} E$ $31\frac{1}{2}$ lds dist, marked $\frac{1}{4}$ P. B. G. A piñon tree 10 ins in diam., bears $N 63^{\circ} E$ $16\frac{1}{2}$ lds dist marked $\frac{1}{4}$ P. B. G.
44.00	Ledge of rock; descend steep slope 150 ft.
56.60	Gulch 40 ft deep bears S. W.
80.00	Set a sandstone 18x12x6 ins, 1.0 ins in the ground, for cov. to secs. 2, 3, 34 and 35 marked with 2 notches on E and 4 notches on W edge; from which A piñon tree 7 ins in diam. bears $N 67^{\circ} E$ $21\frac{1}{2}$ lds dist, marked T 27 S. R 23 E S 35 B. G. A cedar tree 20 ins in diam. bears $N 28\frac{1}{2}^{\circ} E$ $21\frac{1}{2}$ lds dist, marked T 28 S. R 23 E D. 3 B. G. A cedar tree 10 ins in diam., bears $S 43\frac{1}{2}^{\circ} W$ $41\frac{1}{2}$ lds dist, marked T 28 S. R 23 E D. 3 B. G. A cedar tree 8 ins in diam., bears $N 46^{\circ} W$ $10\frac{1}{2}$ lds dist marked T 27 S. R 23 E D. 34 B. G. Land mountainous; soil, stony & th rate. Heavy cedar and piñon timber on 80.00 chs.
	Won a tree line bet secs. 3 and 34. $Va 1405^{\circ} E$
19.00	Descend through heavy cedar and piñon timber
29.00	Ledge of rock
-40.00	descend steep slope 150 ft to Set a sandstone 18x9x5 ins, 1.0 ins in the ground for $\frac{1}{4}$ sec. cov., marked $\frac{1}{4}$ on N face; from which A piñon tree 7 ins in diam. bears. $N 67^{\circ} W$ $11\frac{1}{2}$ lds dist, marked $\frac{1}{4}$ P. B. G. A piñon tree 9 ins in diam., bears $N 44\frac{1}{2}^{\circ} E$ $67\frac{1}{2}$ lds dist, marked $\frac{1}{4}$ P. B. G. Land mountainous; soil stony & th rate. Heavy cedar and piñon timber on 4000 chs.

West Boundary of T27S. R23E S.D.M.

It is impossible to run the Abby further W owing to the presence of numerous impassable cliffs and cañons.

From the cuts secs. 2, 3, 34 and 35 on the Abby, I run $W 0^{\circ} 0' W$ bet. secs 34 and 35, 80.00 chs to the cor. to secs 26, 27, 34 and 35. Thence I run W on a true line 3 miles 78 chs 17 lks and ^{cliffs} across at the exact conpoint with 5 notches on N and 1 notch on S, on a sandstone boulder 6x5x2 ft above ground, for cut to secs 25, 30, 31 and 36, from which a cedar tree, 4 ins in diam., bears $N 59^{\circ} E$ 56 lks dist. marked T27 S R23 E 130 B9.

A cedar tree 8 ins in diam. bears $N 50^{\circ} E$ 53 lks dist. marked T27 S R23 E 131 B9.

A cedar tree 8 ins in diam. bears $N 48\frac{1}{2}^{\circ} W$ 29 lks dist. marked T27 S R23 E 132 B9.

A piñon tree 10 ins in diam. bears $N 81\frac{1}{2}^{\circ} W$ 54 lks dist. marked T27 S R23 E 125 B9.

See notes of subdivision of this township

Hence I run N, bet. secs 25 and 30

$V_6 140^{\circ} 35' E$

Through heavy cedar and piñon timber
Gulch 40 ft deep bears S. E. Ascend

1.00 Head of same gulch 20 ft deep bears $0 10^{\circ} W$.
10.00 Ridge 150 ft above last sec. cor., bears E + W.
18.70 descend 100 ft to

27.70 Coulter bears W, ascend

40.00 Set a sandstone 18x10x4 ins, 12 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; from which a piñon tree 8 ins in diam. bears $N 36\frac{1}{2}^{\circ} E$ 95 lks dist. marked $\frac{1}{4}$ S. B9.

A cedar tree 10 ins in diam. bears $0 24\frac{1}{2}^{\circ} W$ 21 lks dist. marked $\frac{1}{4}$ S. B9.

46.70 Coulter bears $0 70^{\circ} W$.

65.00 Leave timber; enter dense Artemesia undergrowth

80.00 Set a sandstone 18x12x4 ins, 12 ins in the ground for cut to secs. 19, 24, 30 and 31 marked with 4 notches on N and 2 notches on S edge; dug pit 18x18x12 ins in each sec. 5 $\frac{1}{2}$ ft dist and raised a mound of earth, 2 ft high, 4 $\frac{1}{2}$ ft base alongside

West Boundary of T 27 N R 23 E D. S. M.

Land, mountainous; soil stony 3rd and 4th rate. Heavy cedar and piñon timber or dense artemesia undergrowth on 80.00 chs

N bet secs 19 and 24

Va 14° 39' E

Ascend gradually through dense artemesia undergrowth.

18.00 Enter heavy cedar and piñon timber.

40.00 Set a sandstone 16x10x4 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W face; from which

A piñon tree 8 ins in diam. bears N 4° E
43 lks dist marked 1/4 D. B. G.

A piñon tree 12 ins. in diam bears N 2-3° W
68 lks dist. marked 1/4 D. B. G.

Top of mountain bears N. E. and S. W.; descend.

Bottom of gulch bears N 2° E; ascend.

70.00 Begin abrupt ascent over rough, stony ground.

It is impracticable to set a stone in the ground, I therefore set a sandstone 18x10x5 ins in a mound of stone 1 1/2 ft high, 2 ft base, for cor to secs. 13, 18, 19 and 24 marked with 3 notches on N and S edges. Pits impracticable. No bearing trees available.

Land mountainous; soil, stony 4th rate.

Heavy cedar and piñon-timber or dense artemesia undergrowth on 80.00 chs.

Mountainous on 80.00 chs.

N bet secs 13 and 18

Va 14° 4' 3" E

Along E slope of mountain, through dense cedar undergrowth.

40.00 It is impracticable to set a stone in the ground, I therefore set a sandstone 18x12x6 ins. in a mound of stone 1 1/2 ft high, 2 ft base, for 1/4 sec. cor. marked 1/4 on W face. Pits imp.

Foot of mountain; leave cedar and enter dense artemesia undergrowth.

West Boundary of T27A R23E S.D. M.

5900 Road from Moab to Monticello, bears S.E.
and N. E. in Coalville.

8000 It is impracticable to set a stone in the
ground, therefore set a sandstone 18x9x4 ins
in a mound of stone, 1 $\frac{1}{2}$ ft high, 2 ft base
for cor to secs. 7, 12, 13 and 18, marked with
2 notches on N. and 4 notches on S. edge.
Pits imp.

Land mountainous and level, soil stony
3rd and 4th rate.

Dense cedar or artemesia undergrowth
over 80.00 chs.

Aug 27th 1894

Obs. on Sun Aug 29th 8 A.M. on W boundary
of township at cor to secs 7, 12, 13 and 18
in Lat. $38^{\circ}28'16''$

Alt.

hor angle right.

$29^{\circ}18'$ $102^{\circ}01'$

$29^{\circ}26'$ $102^{\circ}10'$

$29^{\circ}35'$ $102^{\circ}18'$

$29^{\circ}40'$ $102^{\circ}23'$

Sum $117^{\circ}59' \checkmark$ Sum $408^{\circ}52'$

Mean $29^{\circ}29'45''$ Mean $102^{\circ}13'$

Ref - $1'40'' \checkmark$

h = $29^{\circ}28'05'' \checkmark$

Suns decl. Aug 29th 1894 (lephem) $9^{\circ}16'50''$

Alt. $5^{\circ}3'49'' \times 3 = 2'40.5'$

Decl. 8 A.M Aug 29th (day) $9^{\circ}14'10'' \checkmark$

P.D. = $90^{\circ} - 9^{\circ}14'10'' = 80^{\circ}45'50'' \checkmark$

L, log. cos. of $38^{\circ}28'16'' = 9.893718$

h, " " $29^{\circ}28'05'' = 9.939834$

2A $148^{\circ}42'11'' = 19.833552$ (a)

$\frac{1}{2}(a) = 9.916776$ (b) \checkmark

D, log. cos. of $74^{\circ}21'05'' = 9.430941$ \checkmark

D-P.D., " " $6^{\circ}24'45'' = 9.997274$ "

Sum = 19.428215.

Y₂ = 9.714107 \checkmark

Alt. (b) - $9.916776 \checkmark$

$\frac{1}{2} Z$ log. cos. of $51^{\circ}09'51'' = 9.797031$

Z, $102^{\circ}19'42''$ hor. angle right. $102^{\circ}13' = 6\frac{3}{4} \checkmark$

West Boundary of T 27 N. R 23 E. S. L. M.

The bearing of my reference line is N $6\frac{3}{4}^{\circ}$ E
I turn off $6\frac{3}{4}^{\circ}$ W and find the magnetic
bearing of the true meridian to be
N $14^{\circ}50' W$, the mean declination is
 $14^{\circ}46' E$.

N bet secs 7 and 12

Va $14^{\circ}50' E$

Through dense artemesia undergrowth
over nearly level ground.

- 21.00 Pack creek 20 ft wide, 4 ft deep (dry) bears
from S.E. to W.
40.00 Set a trachite stone, $14 \times 9 \times 9$ ins, 10 ins in
the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on
W face; raised a mound of earth $1\frac{1}{2}$ ft
high, 2 ft base alongside. Pits imp.
41.20 Coule $'$ 10 ft wide, 10 ft deep bears N.W.
48.70 Coule $'$ 20 ft wide, 4 ft deep bears N.W.
57.00 Coule $'$ bears N. $30^{\circ} W$.
68.40 Irrigation ditch. 6 ft wide, 2 ft deep
bears N $30^{\circ} W$.
80.00 Set a trachite stone $20 \times 10 \times 8$ ins 15 ins in
the ground for cor to secs 1, 6, 7 and 12,
marked with 1 notch on W, and 5 notches on
S edge; raised a mound of earth $1\frac{1}{2}$ ft
high, 2 ft base alongside. Pits imp.
Sand nearly level; no oil, stony 3^{25} rate.
No timber.
Dense artemesia undergrowth on 80.00 chs.

N bet. secs. 1 and 6,

Va $14^{\circ}48' E$

Through dense artemesia undergrowth.

- 5.70 Road to Moab bears N.W.
15.50 Coule $'$ bears N.W.
40.00 Set a trachite stone $18 \times 10 \times 4$ ins, 12 ins in
the ground, for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on W
face, raised a mound of earth $1\frac{1}{2}$ ft
high, 2 ft base alongside. Pits imp.
80.00 Set a trachite stone $15 \times 9 \times 4$ ins, 10 ins in the
ground, for cor to 7 ps 26 and 27 A. R. 22 and

North Boundary of 9270 R 20 E D.S. M.

23 E. marked with six notches on each edge; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. Pitt imp.

Land nearly level; soil stony, 3rd rate.
No timber.

Dense artemesia undergrowth on 80.00 chs.

It is impossible, by ordinary methods of surveying, to run a random line from the N.W. cor. to the N.E. cor. of this ^{as per instructions} ~~9 p~~ ^{9 p} on account of the precipitous character of the ground. Therefore run from the cor. to 9 ps 26 and 27 D. R's 22 and 23 E on a true line between 6 and 01.

Va $14^{\circ}45' E$

Through dense artemesia undergrowth.

Coule 30 ft deep, bears $2130^{\circ} W$

Stony point 50 ft high, bears N.

Coule: 30 ft deep bears S. W.

Set a sandstone 16x9x4 ins, 11 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face; raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside. Pitt imp.

There is an impassable cliff about 20 chs E of this cor.; I therefore discontinue the line at the $\frac{1}{4}$ sec. cor.

Land rolling; soil stony, 3rd rate.

No timber.

Dense artemesia undergrowth on 37.72 chs.

Aug 29th 1894

as it is impossible, from the extreme roughness of the ground to extend the line further E, or to run W from the N.E. cor. of the 9^p or to extend any of the subdivisinal lines N to the N bdy. I set the cor to secs 2, 3, 34 and 35 on the N bdy of this 9^p during the progress of the subdivisinal survey of 9260 R 23 E (See notes of 9260 R 23 E) The description of this cor. is as follows: Set a sandstone 26x12x3 ins

North Boundary of T 27 D. R 23 E. I. S. N. W.

15 ins in the ground, for cor to secs. 2, 3, 34
and 35, marked with 2 notches on E, and
4 notches on W edge, from which
A pinon tree 16 ins in diam bears N $74\frac{1}{2}$ ° E
175 lms dist., marked T 26 D R 23 E 135 B. 9.
A pinon tree 10 ins in diam. bears N 71° E
210 lms dist., marked T 27 D R 23 E 12 B. 9.
A cedar tree 12 ins in diam bears N $87\frac{1}{2}$ ° W
182 lms dist., marked T 27 D R 23 E 13 B. 9.
A pinon tree 10 ins in diam. bears N 60° W 208 lms
dist., marked T 26 D R 23 E 13 4 B. 9.
From this cor. I will move eastwardly ^{thence}
secs 3 and 34

N $140^{\circ} 38'$ E

Through heavy pinon and cedar timber
gradually ascending

- 4.53 A pinon tree, 10 ins. in diam., a birch tree,
marked with 3 notches on E and W sides.
Coulter bears N 70° W.
27.70 Set a sandstone 18x9x2 ins, 12 ins in the
ground for 1/4 sec. cor. marked 1/4 on N
face; from which
A pinon tree, 7 ins. in diam, bears N $15\frac{1}{2}$ ° W
39 lms. dist., marked 1/4 0. B. 9.
A pinon tree 6 ins in diam. bears N $32\frac{1}{2}$ ° W
55 lms dist. marked 1/4 0. B. 9.
The rim of the plateau, which is impassable
is about 4.00 cho. W and bears N.W. and N.E.
Land rolling; soil story 4th rate.
Heavy pinon and cedar timber on 4.00
cho.

Sept 4th 1894

For general description of this township
see notes of subdivision by same

Frank E. Baxter
U.S. Dep Surveyor

of Names.

A list of the names of the individuals employed by _____
U. S. Deputy Surveyor, to assist in running, measuring, and
working the lines and corners described in the foregoing field notes of the survey of the _____

Meridian, in _____, showing
respective capacities in which they acted:

Final Oath of Assistants:

We hereby certify that we assisted _____, U. S. Deputy Surveyor, in surveying all
parts or portions of the _____

Meridian, _____, as are represented in the
field notes as having been surveyed by him and under his direction; and that said survey has been in all
parts, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
according to the instructions furnished by the U. S. Surveyor General for _____

scribed and sworn to before me this _____
day of _____, 18 _____. }



Final Oath of U. S. Deputy Surveyor.

I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, the surveying manual, and the laws of the United States, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

U. S. Deputy Surveyor.

Subscribed and sworn to before me this _____
day of _____, 18_____ }



Approval.

Office of the U. S. Surveyor General,

Salt Lake City Utah June 6, 1895.

The foregoing field notes of the survey of the exterior lines of Township 27
South Range 23 East of the Salt Lake Baseline Meridian

executed by

Frank E. Barker

under his Contract No. 196, dated January 18th, 1894, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Wood
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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J. B. B.

K. B.

FIELD NOTES

OF THE SURVEY OF

The Subdivision of Township 27 South
Range 23 East

Of the Salt Lake Meridian,

Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

under his Contract No. 196, dated January 18th, 1894.

Survey commenced August 19th, 1894.

Survey completed August 29th, 1894.

(4-679.) 6-151

1 61-125
2 61-125
42 37 125

Names and Duties of Assistants.

<u>Daniel Morris</u>	<u>Chairman</u>
<u>Wallace Wilson</u>	<u>Chairman</u>
<u>Edward Redmond</u>	<u>Assessor</u>
<u>Lowell Wells</u>	<u>Playman</u>

INDEX DIAGRAM.

Township 27 S., Range 29 E.

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32		31		22		15		9		6
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27		26		18		12		6		2
31		32		33		34	1	35	2	36

Meanders Page.....

Preliminary Oaths of Assistants.

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 18 . }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this }
day of , 18 . }

, Axeman.

, Axeman.

Subdivision of T 27 S R 23 E D. L. N. W.

Survey commenced Aug 18th 1894
 Having previously adjusted my taut line
 and corrected the length of my chain
 I begin on the N bdy of the 7th at the cor.
 to secs 1, 2, 34 and 35 hereinbefore described
 Thence I run N^o 0' W bet secs. 35 and 36

Via 14° 54' E

ascend through heavy cedar and piñon
 timber

- | | |
|-------|---|
| 30.00 | Top of hill bears E and W; descend |
| 40.00 | Set a granite stone 18x8x4 ins 12 ins
in the ground, for 1/4 sec. cor. marked
$\frac{1}{4}$ on W face; from which |
| | A piñon tree 5 ins. in diam. bears N 28° W
59 lfts dist, marked $\frac{1}{4}$ D. B. G. |
| | A piñon tree 7 ins. in diam. bears N 75° E
7 lfts dist marked $\frac{1}{4}$ D. B. G. |
| 60.00 | Leave timber; enter dense squaw under
brush. |
| 71.80 | Cain Spring Wash bears W, 300 ft below
top of hill; ascend steep slope to |
| 80.00 | It is impracticable to set a stone in the
ground, I therefore set a sandstone 16x7x4
ins. in a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft
base, for cor to secs 25, 26, 35 and 36, marked
with 1 notch on N and 1 notch on E edge,
from which. |
| | A piñon tree 9 ins. in diam. bears N 17° W
16.8 lfts dist, marked T 27 S R 23 E D 26 B. G. |
| | A piñon tree 8 ins in diam. bears N 27 $\frac{1}{2}$ ° W
84 lfts dist, marked T 27 S R 23 E D 35 B. G. |
| | No other trees in limit. Pits imp. |
| | Land mountainous, soil, stony, 4 th rate. |
| | Heavy cedar and piñon timber or dense
undergrowth in 80.00 chs. |
| | Mountainous on 80.00 chs. |

Aug 18th 1894

From the cor to secs 2, 3, 34 and 35 on the N bdy
 hereinbefore described I run
 N^o 0' W bet secs 34 and 35

Subdivision of T 270 R 23 E. A. L. M.

Va $14^{\circ} 50' E$

Ascending gradually along W slope of mountain, through heavy cedar and piñon timber.

15.00	Top of hill; descend along W slope of mountain.
38.50	Coule bears W; foot of hill 125 ft high; ascend gradually.
40.00	Set a sandstone 16x9x3 ins., 11 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; from which A cedar tree 7 ins in diam bears $050\frac{1}{2}^{\circ} E$ 22 lms dist. marked $\frac{1}{4} S. B. G.$.
	A cedar tree 12 ins in diam bears $246^{\circ} W$ 5 lms dist marked $\frac{1}{4} S. B. G.$
50.00	Begin steep descent.
64.00	Cain Spring Wash, dry, bears W; ascend
75.50	Top of hill 500 ft above last point.
80.00	Set a trachite stone 15x12x5 ins., 10 ins in the ground, for cor. to secs. 26, 27, 34 and 35 marked with 1 notch on N and 2 notches on E edge; from which A piñon tree 7 ins in diam. bears $222\frac{1}{2}^{\circ} E$ 33 lms dist, marked $T 270 R 23 E 026 B. G.$
	A piñon tree 5 ins in diam bears $078\frac{1}{2}^{\circ} E$ 8 lms dist marked $T 270 R 23 E 035 B. G.$
	A cedar tree 14 ins in diam bears $051^{\circ} W$ 61 lms dist, marked $T 270 R 23 E 034 B. G.$
	A piñon tree 10 ins in diam bears $274^{\circ} W$ 23 lms dist, marked $T 270 R 23 E 027 B. G.$
	Sand-mountainous; soil, stony 4th rate. Heavy cedar and piñon timber on 80.00 acs.

From the cor. to secs 25, 26, 35 and 36 I run E on a random line bet. secs 25 and 36

Va $14^{\circ} 48' E$

40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.12	Intersect E line of $\frac{1}{4}$ of 6 lms S of cor. to secs. 25, 30, 31 and 36 Therein I run $089^{\circ} 57' W$ on a true line bet. secs. 25 and 36
	Va $14^{\circ} 48' E$

Subdivision of 9.27 A. R 23 E. D.L.W.

Descend.

- 9.80 Wash in gulch 75 ft deep bears N 80° W; enter dense oak underbrush
40.00 Enter heavy cedar timber
40.06 Set a sandstone 14x7x6 ins 10 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; from which
A cedar tree, 5 ins. in diam bears N 84° E
8 lks dist, marked $\frac{1}{4}$ D. B. G.
A cedar tree 9 ins. in diam, bears S 80° W.
15 lks dist, marked $\frac{1}{4}$ D. B. G.
46.50 Edge of hill; descend along S slope.
51.00 Leave timber enter oak and spruce under-growth.
59.00 Gulch 60 ft deep bears S. W.
80.12 The cor to secs 25, 26, 35 and 36.
Land mountainous; soil stony 3rd and 4th
rate.
Timber, cedar.
Mountainous on 80.12 chs.

N 80° W bet. secs. 25 and 26

10 14044' E

Ascend.

- 86.00 Top of ridge 200 ft above cor. bears E and W.
Enter heavy cedar and pinon timber.
11.00 Wash in gulch 100 ft deep. bears S 80° W.
26.00 Wash in gulch 40 ft deep bears W.
30.00 Ridge bears E and S. W.
39.80 Wash in gulch 60 ft deep bears W.
40.00 Set a sandstone, 20x10x5 ins, 15 ins in the ground, for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on W face; from which
A cedar tree 15 ins in diam, bears S 67° E
19 lks dist, marked $\frac{1}{4}$ D. B. G.
A cedar tree 11 ins in diam, bears N 34° W
21 lks dist, marked $\frac{1}{4}$ D. B. G.
44.00 Ridge bears E and W; descend.
72.00 Leave cedar timber
90.00 It is impracticable to set a stone in the ground.
Therefore set a sandstone 20x7x5 ins. in a

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Subdivision of T 27 S. R 23 E. D. S. W.

	mound of stone $1\frac{1}{2}$ ft high, 2 ft base, for cor. to secs. 23, 24, 25 and 26, marked with 2 notches on S. and 1 notch on E. edge. Pits imp. Land mountainous; soil stony, thin slate. Pinon, cedar and juniper. Mountainous on 80.00 chs.
	N $89^{\circ} 57' E$ on a random line bet secs. 24 and 25 Va $14^{\circ} 46' E$
4000	Set a temporary $\frac{1}{4}$ sec. cor.
80.03	Intersect E line of 9th. 4 ltrs N of cor to secs. 19, 24, 25 and 30 Hence turn, N $89^{\circ} 59' W$ on a true line, bet. secs. 24 and 25 Va $14^{\circ} 46' E$.
	descend
0.56	Fence bears N $60^{\circ} W$
9.00	Enter dense underbrush.
12.30	Pack creek 20 ft wide, 5 ft deep, stream 4 ltrs wide 6 ins deep bears N $60^{\circ} W$
15.20	Leave underbrush, enter cultivated land
24.00	Barbour's fence bears N $10^{\circ} E$ and S. E. Leave cultivated land.
24.40	Road to Moab bears S $10^{\circ} W$; thence along N slope of mountain.
29.00	Enter heavy pinon and cedar timber
40.01	Set a sandstone 18x10x5 ins, 12 ins in the ground for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on N face, from which A cedar tree 4 ins in diam. bears S $42^{\circ} E$ 24 ltrs disk, marked $\frac{1}{4} D. B. G.$ A pinon tree 7 ins in diam. bears N $39\frac{1}{2} W$ 9 ltrs disk, marked $\frac{1}{4} D. B. G.$
43.30	Coule 2-5 ft deep bears N $20^{\circ} W$
47.50	descend
58.00	Leave timber
71.30	Coule bears N $20^{\circ} W$.
76.00	Coule bears N $20^{\circ} W$.
80.03	The cor. to secs. 23, 24, 25 and 26. Land mountainous and rolling; soil.

Subdivision of T 27 D. R 23 E. S. S. W.

steep, 4th rate; rich loam along creek,
1st rate.

Timber, piñon and cedar.

Mountainous on 55.63 chs.

N 0° W bet. secs. 23 and 24

Lat 14° 46' E

descend

Enter cottonwood undergrowth

Pack creek (dry) bears W; ascend.

Road to Moab bears W.

Enter heavy cedar and piñon timber; leave
undergrowth.

Top of step ascent 100 ft above creek; hence
over W slope of hill."

The variation, here, is increased to 15° 30' E
by local attraction

Wash in gulch, 50 ft deep bears N 85° W

Point of ridge bears E; descend along
W slope.

Set a sandstone 16 x 12 x 14 ins 11 ins in the
ground, for 1/4 sec. cor., marked 1/4 on
W face; from which

A piñon tree 5 ins. in diam. bears N 35° E
7 lks dist., marked 1/4 D. B. T.

A cedar tree 10 ins in diam. bears N 10° E
12 lks dist., marked 1/4 D. B. T.

Wash in gulch 30 ft deep, bears W.

Wash in gulch 50 ft deep bears N 30° W

Woodroad bears N. E. and S. W.

Wash in gulch 60 ft deep bears W.

Set a trachite stone, 15 x 10 x 5 ins, 10 ins.
in the ground for. cor. to secs. 13, 14, 23
and 24 marked with 3 notches on S. and
1 notch on E edge; from which

A piñon tree, 6 ins in diam. bears N 44½° E
2 lks dist., marked T 27 D R 23 E 0 13 B. T.

A cedar tree, 8 ins in diam. bears N 62° E

16 lks dist., marked T 27 D R 23 E 0 24 B. T.

A piñon tree 7 ins. in diam. bears N 72° W

37 lks dist., marked T 27 D R 23 E 0 14 B. T.

Subdivision of T 27 S. R 23 E. I. S. C. NW.

No other tree in limit.

Land mountainous; soil, stony, 4th rate.

Timber, cedar and piñon

Mountainous on 80.00 chs.

W 89° 59' E on a random line bet. secs. 13 and 24
Va 14° 44' E

Set a temporary $\frac{1}{4}$ sec. cor.

Intersect E bdy of T 10 Lts N of cor to secs.
13, 14, 18 and 19.

Then descend. W 89° 57' W on a true line
bet. secs. 13 and 24

Va 14° 44' E

Ascend through heavy cedar and piñon
timber.

4.00 Ridge bears N 30° E & D.W.

7.00 Wash in gulch 75 ft deep bears D. 30° W

Indian trail bears N.E. and D.W.

23.50 Wash in gulch 75 ft deep, bears D.

Top of ridge, bears D. 30° W and N 30° E.

40.00 Set a sandstone 16 x 2 x 3 ins, 11 ins in the
ground. Far $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N.
face; from which

A cedar tree, 8 ins in diam bears N 18° E
27 lts dist, marked $\frac{1}{4}$ O. B. G.

A piñon tree, 7 ins in diam. bears D 49° E
21 lts dist, marked $\frac{1}{4}$ O. B. G.

43.00 Begin descent.

62.50 Wash in gulch 75 ft deep bears D.W.

70.30 Wood road bears N.E. and D.W.

75.00 Wash in gulch 60 ft deep bears D.W.

Ridge bears N.E. and D.W.

78.50 The cor to secs 13, 14, 23 and 24.

Land, mountainous; soil, stony, 4th
rate.

Heavy cedar and piñon timber on 80.10 chs.

Aug 20th 1894.

From the cor. to secs. 26, 27, 34 and 35

I run E on a random line bet secs. 26 and 35

Va 14° 53' E

Subdivision of T 27 S. R 23 E. D.L.M.W.

40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.22	Intersect cor. to secs 25, 26, 35 and 36 Hence I run. W on a true line bet secs. 26 and 35
	Va 14048' E
	Along N slope of hill.
30.00	Enter heavy cedar and piñon timber
35.00	Wash in gulch bears N.E.
40.11	Set a sandstone 16x12x8 ins 11 ins in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face; from which A piñon tree 4 ins. in diam. bears N 43° W 45 lbs dist, marked $\frac{1}{4}$ D. B.T.
	A piñon tree 9 ins in diam. bears N 40° E. 63 lbs dist, marked $\frac{1}{4}$ D. B.T.
51.00	Edge of hill 150 ft above $\frac{1}{4}$ sec cor, bears N 4.00 chs - thence E and S 80° W.
80.22	9. he cor. to secs. 26, 27, 34 and 35. Sand mountainous; soil stony & thrate. Heavy cedar and piñon timber on 50.00 chs Mountainous on 80.22 chs.

N 0° 0' W bet. secs. 26 and 27

Va 14050' E

1.30	Through heavy cedar and piñon timber Gulch bears S.W.
6.00	Ridge 75 ft high, bears N 60° E and S. W.
10.50	A cedar tree 12 ins in diam, a live tree, marked with 2 notches on N and S sides.
12.50	Wash in gulch 30 ft deep bears N. W.
26.30	Wash in gulch 75 ft deep bears W.
40.00	Set a trachite stone 14x8x5 ins. 10 ins in the ground, for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on W face from which A cedar tree 18 ins in diam. bears N 86° W 15 lbs dist, marked $\frac{1}{4}$ D. B.T.
51.00	A piñon tree 5 ins in diam. bears N 30° E 30 lbs dist, marked $\frac{1}{4}$ D. B.T.
48.00	Coculi bears W.
59.20	Coculi bears W.
72.00	Wash in gulch 40 ft deep bears W.

Subdivision of T 27 S. R 23 E. D. L. M.

76.00	Couler' 10 ft deep bears W.
77.00	Leave timber
79.00	It is impracticable to set a stone in the ground, therefore set a sandstone 15x12x4 ins, in a mound of stone 1 1/2 ft high, 2 ft base, for cor. to secs 22, 23, 26 and 27, marked with 2 notches on S and 2 notches on E edge. Pds imp. No bearing trees available. Land, mountainous; soil, stony & thre. Heavy cedar and piñon timber on 77.00 chs Mountainous on 80.00 chs.
	E on a random line bet. secs 23 and 26 Va 14° 54' E
40.00	Set a temporary 1/4 sec cor.
80.48	I intersect N and S line, 12 1/2 ins S of cor. to secs. 23, 24, 25 and 26 Hence 089° 55' W on a true line bet. secs. 23 and 26 Va 14° 49' E
28.40	Along N slope of mountain Couler' bears N.
39.30	Couler' bears N; begin steep ascent.
40.24	It is impracticable to set a stone in the ground, therefore set a granite stone 18x8x6 ins in a mound of stone 1 1/2 ft high, 2 ft base, for 1/4 sec. cor., an arched 1/4 on N face. Pds imp.
44.00	Enter heavy cedar timber
53.00	Top of mountain, 400 ft above 1/4 sec. cor. bears S. E. and W. W.; descend.
75.00	Leave timber
80.48	The cor to secs. 22, 23, 26 and 27 Land mountainous; soil stony & thre. Heavy cedar timber on 31.00 chs. Mountainous on 80.48 chs.
	10° 01' W bet. secs. 22 and 23 Va 14° 50' E

Sub-division of T. 27 D. R. 23 E. A. S. M.

0.50	Wash in gulch 25 ft deep, bears S. W., ascend
2.00	Enter heavy scrub cedar timber.
5.50	Top of hill bears E and W, descend steep slope.
28.00	Leave timber; foot of steep descent.
28.84	R. D. Smith's house bears N 65° E
36.70	Cocles bears W.
37.40	Road to Moab bears S 70° W.
38.33	Fence bears E and W, enter cultivated land.
40.00	Set a sandstone 14x8x4 ins, 9 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face; raised a mound of stone, 1 $\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp.
	R.D. Smith's house bears S 73° E
44.20	Leave cultivated land.
48.00	Enter dense underbrush
50.10	Pack creek (dry) bears W.
57.80	Fence bears E and W. Enter heavy cedar timber.
64.50	Wash in mouth of gulch; ascend steep hill.
80.00	Point of ridge bears W.
80.00	It is impracticable to set a stone in the ground, therefore set a trachite stone 18x8x6 ins in a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base for cor. to secs 14, 15, 22 and 23 marked with 3 notches on S, and 2 notches on E edge. Pits impracticable. No bearing trees available. Land, mountainous and rolling; soil stony 4 th rate and sandy loam 1 st rate. Heavy scrub cedar timber or dense undergrowth on 88.00' chs.

N 89° 55' E on a random line bet. secs.
14 and 23

S 14° 48' E

40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.43	Intersect N and O line 9 mts N of cor to secs. 13, 14, 23 and 24
	Thence I run N 89° 55' W on a true line bet. secs. 14 and 23

Subdivision of 927.D. R23E. D.L.W.

Va 14° 48' E

	Through heavy cedar and piñon timber
3.50	Wash in gulch 50 ft deep, bears N 60° W.
8.80	Stony ridge, bears N.E. and S.W.
29.40	Wash in gulch 100 ft deep bears S.W.
31.50	Leave cedar and piñon timber
36.10	Stony ridge bears N and S.
40.21	Set a sandstone 16x7x4 ins., 11 ins in the ground for 1/4 sec. cor., marbled 1/4 on N face, raised a mound of stone 1 1/2 ft high, 2 ft base along side. Pts imp.
68.40	Top of steep hill bears N.E. and S.W.; descend.
74.40	Wash in gulch 150 ft deep bears S., ascend steep slope
78.00	Enter scrub cedar timber.
80.43	From the cor. to secs. 14, 15, 22 and 23. Land mountainous; soil stony, 4 th rate. Timber cedar and piñon. Mountainous on 80.43 chs.

From the cor. to secs. 13, 14, 23 and 24
Bear N 0° W bet. secs. 13 and 14

Va 14° 44' E

	Ascend through heavy cedar and piñon timber
2.60	Wash in gulch, bears W.
15.50	Wash in head of gulch 100 ft deep, bears S.W.
33.50	Top of mountain, bears E and W.
40.00	Set a sandstone, 18x9x6 ins., 12 ins in the ground for 1/4 sec. cor., marbled 1/4 on W face, from which A cedar tree 9 ins in diam. bears N 62° E 32 lfts dist. marbled 1/4 O. B. T.
	A piñon tree 17 ins. in diam. bears N 40° W
	50 lfts dist. marbled 1/4 S. B. T.
42.00	Ridge bears E. and W.
48.00	Wash in gulch 20 ft deep bears N.W.
53.03	A piñon tree 14 ins in diam. a live tree, marbled with 2 notches on N and S sides.
68.00	Ridge bears E and S.W.

Subdivision of T 27 N R 23 E. S. L. M.

75.60

Wash in gulch 30 ft deep bears SW.
Set a trachite stone 22 x 14 x 6 ins 17 ins in
the ground, for cor to secs. 11, 12, 13 and 14,
marked with 4 notches on the S, and 1 notch
on the E edge, from which

A piñon tree 10 ins in diam bears N $32\frac{1}{2}^{\circ}$ E
47 lks dist., marked T 27 N R 23 E D 12 B 9.

A piñon tree 10 ins in diam bears, D 52° E
53 lks dist. marked T 27 N R 23 E D 13 B 9.

A piñon tree 8 ins. in diam bears D 65° W
51 lks dist. marked T 27 N R 23 E D 14 B 9.

A cedar tree, 8 ins in diam, bears N 69° W
44 lks dist., marked T 27 N R 23 E D 11 B 9.

Land mountainous; soil stony, 4th rate.
Heavy cedar and piñon timber on 80.00 chs

Aug 21st 1894

Obs. on Sun 9:00 A.M. Aug 22nd 1894
at cor to secs 26, 27, 34 and 35 in lat. $38^{\circ}25'$
 $52''$ N.

	Alt.	Slope angle right
	$42^{\circ}01'$	$111^{\circ}51'$
	$42^{\circ}08'$	$111^{\circ}59'$
	$42^{\circ}16'$	$112^{\circ}06'$
	<u>$42^{\circ}24'$</u>	<u>$112^{\circ}16'$</u>
Sun	$168^{\circ}49'$ ✓	Sun $448^{\circ}12'$
Mean	$42^{\circ}12'30''$	Mean $112^{\circ}03'$ ✓
Ref -	<u>$1'03''$</u>	
h =	$42^{\circ}11'27''$	

Sun's decl Aug 22 (ephem) $11^{\circ}42'40.6''$
Sub. $50.55' \times 4 = 3'22.2'$

Decl 9 A.M. Aug 22nd 1894 $11^{\circ}39'18''$ ✓

P.D. = $90^{\circ} - 11^{\circ}39'18'' = 78^{\circ}20'42.8''$

L, log. cos. of. $38^{\circ}25'52'' = 9.893960$ ✓

h, " " " $42^{\circ}11'27'' = 9.869766$ ✓

$2A = 158^{\circ}58'01'' \vee 19.763726''$ (a)

$\frac{1}{2}(a) = 9.881863$ (b)

D, log. cosec. of $79^{\circ}29' = 9.261314$ ✓

D-P.D., " " " $1008'18'' = 9.999915$ ✓

$19.261229 \times$

$\frac{1}{2} = 9.630614$ ✓

Subdivision of 9.27 A. R. 23 E. D. S. 700.

Favor which subtract (b) 9.881863
 $\frac{1}{\pi} Z$, log. cos. of $55^{\circ}53'38'' = -9.748751 \checkmark$
 $Z = 111^{\circ}57' \checkmark$

Sear angle right, $112^{\circ}03'$
 dif gives bearing of ref line N $06^{\circ}W$
 I turn off $06^{\circ}E$ and find the magnetic
 bearing of the true meridian is N $14^{\circ}47'W$
 The mean declination is, then, $14.044'E$

Then I am, W on a true line between 27 and
 34

Va $14^{\circ}47'E$

Through heavy cedar and pinyon timber.

0.80 Gulch 60 ft deep bears S. W.; ascend steep
 slope.

9.00 Ridge bears $N 60^{\circ}E$ and $060^{\circ}W$.

22.30 Gulch 25 ft deep bears $N 70^{\circ}W$

40.00 Set a sandstone, $22 \times 10 \times 7$ ins., 17 ins in the
 ground, for $\frac{1}{4}$ sec, cor. marked $\frac{1}{4}$ on N.
 Face; from which

Pinyon tree, 9 ins. in diam, bears $N 68^{\circ}E$
 8 lms dist, marked $\frac{1}{4} 0. B. G.$

Pinyon tree, 10 ins. in diam. bears $N 31\frac{1}{2}^{\circ}W$
 75 lms dist, marked $\frac{1}{4} 0. B. G.$

43.00 Begin steep descent.

55.00 Foot of steep slope 100 ft high.

58.00 Coulter bears $N 60^{\circ}W$.

66.00 Wash in gulch 60 ft deep bears S. W.

80.00 Set a sandstone $17 \times 10 \times 7$ ins., 12 ins in the ground
 for cor. to secs 27, 28, 33 and 34, marked with
 1 notch on S. and 3 notches on E edge; from
 which

A cedar tree, 12 ins in diam. bears $040^{\circ}E$
 25 lms dist, marked $\frac{1}{4} 270 R 23 E 034 B. G.$

A pinyon tree 8 ins. in diam. bears $05^{\circ}W$
 16 lms dist, marked $\frac{1}{4} 270 R 23 E 033 B. G.$

A pinyon tree 9 ins. in diam, bears $N 49^{\circ}W$
 88 lms dist, marked $\frac{1}{4} 270 R 23 E 028 B. G.$

No other tree in limit.

Land, mountainous; soil stony, & rocky.

Heavy cedar and pinyon timber on 80.000 chs.

Subdivision of T27N. R23E. S. L. NW.

	N 0°02' W bet. secs. 27 and 28 Va 14°40' E
	Ascend over rolling ground through heavy cedar and piñon timber.
4.50	Coule 6 ft deep, 20 ft wide bears S.W.
17.00	Coule bears W; foot of steep ascent.
28.25	Top of plateau 300 ft high bears S70°W and N70°E.
40.00	Set a sandstone, 16x14x8 ins., 11 ins in the ground, for 1/4 sec. cor, marked 1/4 on the W face; from which A cedar tree, 10 ins in diam., bears N41°E 50 lfts dist., marked 1/4 P.B.9.
	A piñon tree 11 ins in diam. bears N28°W 31 lfts dist. marked 1/4 P.B.9.
47.00	Edge of plateau bears E and W; descend.
50.50	Wash in gulch 75 ft deep bears W.
54.40	Point of ridge bears E.
68.00	Wash in gulch 60 ft deep, bears W.W. Leave cedar and piñon timber.
74.00	Top of hill bears N.E. and W.
76.00	Cut heavy piñon and cedar timber
80.00	Set a sandstone 14x12x8 ins., 10 ins in the ground, for cor to secs. 21, 22, 27 and 28, marked with 2 notches on S and 3 notches on E edge; from which A cedar tree 9 ins in diam. bears N49°E 96 lfts dist., marked T27N.R23E P22B.9.
	A cedar tree, 12 ins in diam., bears P69°E 15 lfts dist., marked T27N.R23E P27B.9.
	A cedar tree, 11 ins in diam., bears P29°W 13 lfts dist., marked T27N.R23E P28B.9.
	A piñon tree 6 ins. in diam. bears N32°W 10 lfts dist., marked T27N.R23E P21B.9.
	Sand, mountainous; soil stony, 4 th rate. Heavy cedar and piñon timber on 72.00 chs. Mountainous on 80.00 chs.
	E on a random line bet. secs. 22 and 27 Va 14°42' E
40.00	Set a temporary 1/4 sec. cor.

First division of T 27 N R 23 E. I. L. M.

8007	Intersects Ward River 20 miles N of cor to secs 22, 23, 26 and 27 Thence down, N 89° 51' W. on a tree line bet. secs. 22 and 27
	Va. 14° 42' E
0.00	Wash in gulch, 40 ft deep bears S.W.
2.50	Enter heavy cedar and piñon timber
36.00	Wash in gulch 40 ft deep bears S 80° W
	Thence along S slope of hill.
40.03	It is impracticable to set a stone in the ground, I therefore set a sandstone 16x6x4 ins in a mound of stone 1½ ft high, 2 ft base, for ¼ sec. cor., marked ¼ on N face. Pits imp. No bearing trees available.
67.00	Wash in mouth of gulch 20 ft deep bears from N. E.
12.00	Top of hill, bears N 60° E and 060° W.
80.07	On the cor to secs. 21, 22, 27 and 28. Land mountainous, soil stony 4 th rate. Heavy cedar and piñon timber on 77.50 chs Mountainous on 80.07 chs

Aug 22nd 1894.

	N 0° 0' W bet. secs. 21 and 22
	Va 14° 46' E
	Through heavy cedar and piñon timber
10.00	Wash in gulch 25 ft deep bears 060° W.
12.60	Edge of hill bears E and W, descend steep slope.
35.00	Leave timber.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 18x10x5 ins. in a mound of stone 1½ ft high, 2 ft base for ¼ sec. cor., marked ¼ on W face. Pits imp.
57.00	Foot of hill 400 ft below top.
62.60	Creek 15 ft wide, 5 ft deep, bears W.
68.80	Road to Mount bears N 70° W.
73.00	Enter dense cottonwood underbrush

Subdivision of T27S. R23E. I.L.W.

74.40	Enter of Paet creek, stream 6 inches, 6 ins deep, course, N 80° W.
76.00	Leave underbrush
80.00	Set a sandstone 18x10x6 ins. rises in the ground for cor to secs. 15, 16, 21 and 22, marked with C notches on S, and C notches on E edge; raised a mound of stone, 1½ ft high, 2 ft base along side Pits imp. Land, mountainous; soil stony 4 th ratio. Timber, cedar and pinyon. Mountainous on 80.00 chs.
	89.51' E on a random line bet. secs 15 and 22
	Va 14044' E
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
79.96	Intersect N and Oliv 8 1/2 ins D of cor. to secs. 14, 15, 22 and 23. Thence turn N 89° 54' W on a true line bet. secs 15 and 22
	Va 14044' E
	Through scattering scrub cedar timber along S slope of hill.
30.0	Leave cedar timber
13.50	Top of ridge, descend along N slope
37.00	Foot of steep descent.
39.98	It is impracticable to set a stone in the ground, I therefore set a trachite stone 15x7x7 ins in a mound of stone, 1½ ft high, 2 ft base, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ in N face. Pits imp.
41.00	Enter dense oak undergrowth
44.30	North Paet creek bears S.W. (dry)
47.50	Wood roath bears N.E. and S.W.
49.40	Wash in gulch 20 ft deep bears S.; leave undergrowth.
53.30	Point of sharp ridge bears N.W.; thence over S slope of hill to
67.00	Point of ridge 30 ft high bears N.W. descend to

Subdivision of T. 27 N. R. 23 E., D. L. W.

- 79.96	<p>From the cor to secs. 15, 16, 21 and 22.</p> <p>Land mountainous; soil stony, 4th rate.</p> <p>Scattering scrub cedar timber on E end of line.</p> <p>Mountainous on 79.96 chs.</p>
	<p>From the cor to secs. 14, 15, 22 and 23.</p> <p>I run N 08° W bet secs 14 and 15</p> <p>Va 14° 04' E</p> <p>descend through scattering scrub cedar timber and underbrush.</p>
2200	<p>N. Pack creek (dry) bears S 70° W.; ascend steep slope.</p>
40.00	<p>It is impracticable to set a stone in the ground, I therefore set a sandstone 16x12x4 ins. in a mound of stone 1½ ft high, 2 ft base for ¼ sec. cor., marked ¼ on W face. Pits imp. No bearing trees available.</p>
5.360	<p>Top of hill 300 ft above creek, thence over top of hill over broken ground.</p>
80.00	<p>It is impracticable to set a stone in the ground, I therefore set a sandstone 16x9x6 ins. in a mound of stone, 1½ ft high, 2 ft base for cor to secs. 10, 11, 14 and 15, marked with 4 notches on S, and 2 notches on E edge. Pits impracticable. No bearing trees available.</p> <p>Land mountainous; soil stony 4th rate.</p> <p>Timber scrub cedar and pinon.</p> <p>Mountainous on 80.00 chs.</p>
	<p>W 89° 51' E on a random line bet secs. 11 and 14</p> <p>Va 14° 04' E</p>
40.00	<p>Set a temporary ¼ sec. cor.</p>
79.86	<p>Intersect N and O line 14 1/16 N of cor to secs. 11, 12, 13 and 14,</p> <p>Thence I run, S 89° 57' W on a true line bet. secs. 11 and 14</p> <p>Va 14° 04' E</p> <p>Through heavy cedar and pinon timber.</p>

57

Subdivision of T 27 N R 23 E D. S. 7th

0.86	Top of low hill, descend over W slope of mountain.
38.00	Coule 30 ft deep bears $0^{\circ}30'W$.
39.90	Set a sandstone 15x10x8 ins, 10 ins in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face; from which A piñon tree 5 ins in diam. bears $266\frac{1}{2}'W$ 23 lms dist, marked $\frac{1}{4}$ D. B. G.
	A cedar tree, 6 ins in diam, bears $220\frac{1}{2}'W$ 35 lms dist, marked $\frac{1}{4}$ D. B. G.
41.00	Point of ridge bears N.E.
63.00	N. Pack creek bears S.W. (dry)
79.30	Ridge bears S. 250 ft above N. Pack creek. descend to
79.86	The cor - to secs. 10, 11, 14 and 15. Land mountainous; soil stony 4 th rate Timber cedar and piñon Mountainous on 79.86 chs. It is impossible to run further on account of cliffs
	From the cor to secs 11, 12, 13 and 14 Run $089^{\circ}57'E$ on a random line bet. secs. 12 and 13 $Va 14^{\circ}45'E$
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.33	Intersect E bdg of township 17 lms N of cor to secs. 7, 12, 13 and 18. Hence run, $089^{\circ}56'W$ on a true line bet. secs. 12 and 13 $Va 14^{\circ}45'E$
	Through heavy cedar and piñon timber, descending W slope of mountain Leave timber.
26.00	Coule bears N.W.
36.30	Enter heavy cedar and piñon timber.
38.00	Enter heavy cedar and piñon timber.
40.16	Set a sandstone 16x9x4 ins 11 ins in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face; from which A piñon tree 9 ins in diam, bears $W38\frac{1}{2}'E$ 5 lms dist, marked $\frac{1}{4}$ D. B. G.
	A piñon tree 14 ins in diam bears $139'E$ 25 lms dist, marked $\frac{1}{4}$ D. B. G.

610

Subdivision of 9270. R 23 E. S. L. N.W.

51.00	Ridge 50 ft. above $\frac{1}{4}$ sec. cor. and 700 ft. above Pack creek bears S.; descend.
78.30	Wash in gulch 25 ft deep bears $810^{\circ} W$.
80.00	The cor. to secs 11, 12, 13 and 14. Sand, mountainous; soil, stony, 4 th rate. Heavy cedar and piñon timber on 68.00 chs. Mountainous on 80.33 chs.

Aug 23rd 1894Impassable cliffs prevent me from running N.W. 1/4

I test the adjustments of my transit and the length of my chain, this morning and find them correct.

Aug 24th 1894.

I begin at the cor. to secs. 27, 28, 33 and 34. There is a draw W on a line bet. secs 28 and 33

Ra $14049' E$

2.70	Through heavy cedar and piñon timber. Canner bears S.W.
9.50	Top of hill 60 ft above sec. cor.
40.00	Set a sandstone 14x10x5 ins 10 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; from which A cedar tree 7 ins. in diam. bears $815^{\circ} W$ 14 lms dist, marked $\frac{1}{4} S. B. T.$
44.00	A piñon tree 6 ins in diam. bears $N 85^{\circ} W$. 48 lms dist, marked $\frac{1}{4} S. B. T.$
51.20	Wash in gulch 25 ft deep bears S.
71.50	Stony ridge 75 ft above gulch bears $70 85^{\circ} W$
80.00	Wash in gulch 100 ft deep bears N.W. Set a sandstone 14x8x9 ins 10 ins in the ground, for cor. to secs. 28, 29, 32 and 33 marked with 1 notch on N, and 4 notches on E edge; from which A piñon tree 9 ins in diam. bears $N 20^{\circ} E$ 17 lms dist, marked $\frac{1}{4} 270 R 23 E 123 B. T.$
	A cedar tree 8 ins in diam. bears $856^{\circ} E$ 54 lms dist, marked $\frac{1}{4} 271 R 23 E 103 B. T.$
	A piñon tree 7 ins in diam. bears $817^{\circ} W$. 33 lms dist, marked $\frac{1}{4} 271 R 23 E 132 B. T.$

51

Subdivision of T27S. R23E. I.L.W.

A piñon tree, 8 ins. in diam bears N66 $\frac{1}{2}$ °W
 51 ft dist, marked T27R23E P29 B7.
 Land, mountainous, soil stony, 4th rate.
 Heavy cedar and piñon timber on 80.000 acres.

Obs on sun 10 A.M. Aug 24th 1894 at the
 cor to secs. 28, 29, 32 and 33 in Lat. 38° 25' 52" N

Alt. Hrs angle right.

47° 15' 11 9° 59'

47° 24' 120° 10'

47° 29' 120° 17'

47° 33' 120° 24'

Sun 189° 41' ✓ Sun 480° 50' ✓

Mean 47° 25' 15" Mean 120° 12' 30" ✓

Alt Ref 54"

h = 47° 24' 21" ✓

Sun's decl Aug 24 (ephem) + 110° 01' 52" ✓
 Alt. 51.46 x 5 4' 17"

decl. 10 A.M. Aug 24th ... 10° 5' 35"

PD = 90° - 10 5' 35" = 79° 0' 25"

L, log. cos. of $38^{\circ} 25' 52''$ = 9.893960 ✓

L, " " $47^{\circ} 24' 21''$ = 9.830461 ✓

Z.D. 164° 52' 38" 19.724421 ✓

$\frac{1}{2}(a)$ = 9.862210 ✓

A, log cos. of $82^{\circ} 26' 19''$ = 9.119218 ✓

D-PD. " " $3^{\circ} 26' 54''$ = 9.999235 ✓

sun = 19.118403 ✓

$\frac{1}{2}$ = 9.559226 ✓

Alt(b) = 9.862210 ✓

$\frac{1}{2}$ Z log. cos. of $60^{\circ} 8' 54''$ = 9.697016 ✓

Z = 120° 17' 48" ✓

Hrs angle right 120° 12' 30" ✓

Dig. is bearing of reference line, N 05' 18" E
 I turn of 5 $\frac{1}{2}$ ° left and find the magnetic
 bearing of the true meridian is N 14° 51' W
 The mean declination is 14° 05' E.

Thence I am N 0° 03' W bet secs 28 and 29
 Va 14° 51' E

descend through heavy cedar and
 piñon timber

Subdivision of T27 R.23 E. D.L.W.

580	Wash in gulch 40 ft deep, ascend.
19.60	Stony ridge 70 ft above gulch, bears S.E. and N.W.
2500	Leave timber
2800	Ridge 150 ft high, bears E and W.
32.80	Wash in head of gulch bears N.W.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 14x10x5 ins, in a mound of stone, 1½ ft high, 2 ft base, for ¼ sec. cor., marked ¼ m W face. Pits imp.
41.00	Top of ridge, 200 ft above gash, 5.80 chs, bears E and W.W.
49.00	Cutter heavy cedar and piñon timber
66.50	Wash in gulch 200 ft deep bears N.W.
73.00	Ridge 125 ft above gulch bears E and N.W.; descend to
80.00	Set a sandstone, 14x10x8 ins 10 ins in the ground, for cor. to secs. 20, 21, 28 and 29, marked with 2 notches on S, and 4 notches on E edge; from which piñon tree 7 ins in diam, bears N63°E 114116 dist, marked T27 R.23 E 1 21 B9.
	piñon tree 6 ins in diam, bears N10°E 27 116 dist, marked T27 R.23 E 1 28 B9.
	piñon tree, 9 ins. in diam, bears N28W 83 116 dist, marked T27 R.23 E 1 29 B9.
	piñon tree 10 ins in diam bears N30°W 143 116 dist, marked T27 R.23 E 1 20 B9.
	Sand mountainous; soil stony & rather Darker cedar and piñon Mountainous on 80.00 chs.

On a random line bet secs 21 and 28
Va 14°57' E

- 40.00 Set a temporary ¼ sec. cor.
8000 Intersect N and S line 13 116 S of cor to
secs. 21, 22, 27 and 28.
Hence I run 189°54' W on a true line bet.
secs 21 and 28

Va 14°37' E

Subdivision of 927 D. R. 23 E. D. L. N.W.

	Through heavy cedar and piñon timber
6.00	Edge of hill bears N.E. and S.W.; descend
11.20	Wash in gulch 75 ft deep bears N. 80° W.; leave cedar and piñon timber.
40.00	It is impracticable to set a stone in the ground, I therefore set a trachite stone 20x14x4 ins, in a mound of stone, 1 1/2 ft high, 2 ft base, for 1/4 sec cor. marked 1/4 on N face Pits imp.
54.00	Ridge bears N 70° E and S.W.; descend over N slope of hill.
69.00	Head of gulch bears N.W.; 200 ft below top of ridge.
70.00	Enter heavy cedar timber; ascend.
80.00	The cor to secs. 20, 21, 28 and 29 Lands mountainous; soil stony, 4 th rate. Timber, cedar and piñon. Mountainous on 80.00 chs.

N 00° 3' W bet. secs 20 and 21

Va 14° 40' E

descend through heavy cedar and piñon timber

10.00	Wash in gulch 150 ft below sec. cor. bears N.W. leave timber.
19.00	Ridge 40 ft high, bears S.E. and N.W.
23.60	Ridge bears N.E.
40.00	Ridge 60 ft high bears E and W.W.
	It is impracticable to set a stone in the ground, I therefore set a sandstone 20x10x5 ins in a mound of stone 1 1/2 ft high, 2 ft base for 1/4 sec cor. marked 1/4 on W face. Pits imp.
65.30	Ridge, 100 ft high, bears S.E. and N.W., enter dense artemesia undergrowth.
70.20	Couler 20 ft deep bears N.W.
70.50	Couler 20 ft deep bears W.
80.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 20x8x7 ins. in a mound of stone, 1 1/2 ft high, 2 ft base, for cor to secs. 16, 17, 20 and 21, marked with 3 notches on S, and 4 notches on E edge.

Subdivision of T 27 N. R 23 E. D. S. M.

	Pits impracticable. Land mountainous; soil, stony 4 th ratio. Heavy cedar and piñon timber or dense artemesia undergrowth on 24.70 acres. Mountainous on 80.00 acres.
	N 89° 54' E on a random line bet. secs. 16 and 21 Va 14° 41' E
40.00	Set a temporary 1/4 acre. cor.
80.35	Intersect N and S line 20 ft. N of cor to secs. 15, 16, 21 and 22. Thence, turn, N 89° 57' W on a true line bet secs. 16 and 21 Va 14° 41' E
9.40	Along S slope of mountain Past crest (dry) bears N 60° W.; enter dense cottonwood underbrush.
14.40	Past crest (dry) bears N 60° W.
22.40	Past crest - bears N 60° W.
27.40	Leave cottonwood; enter dense artemesia undergrowth.
32.30	Road to Neat bears N.W.
35.20	Couler' 20 ft wide, 5 ft deep bears N.W.
40.17	Set a sandstone 16x9x4 ins 11 ins in the ground, for 1/4 sec. cor., marked 1/4 on N face; from which A piñon tree, 8 ins in diam. bears N 53½° E 96 ft dist marked 1/4 D.B.H.
	A piñon tree 26 ins. in diam. bears S 15½° E 82 ft dist. marked 1/4 D.B.H.
	Stocks house bears N 35° E
46.20	Couler' bears N.W. foot of hill, bears N.W.
51.00	Wood road bears N and S.
54.30	Top of mesa 50 ft high bears N.W. and S.E. descent.
76.90	Couler' bears N 60° W.
80.35	The cor to secs. 16, 17, 20 and 21 Land, rolling, soil, stony 3 rd ratio. Dense cottonwood or artemesia under- growth on 70.95 acres.

Aug 24th 1894

Subdivision of T 27 S. R 23 E. D.L.W.

From the cor. to secs. 15, 16, 21 and 22 I run.
N $0^{\circ}2'W$ bet. secs. 15 and 16

Va 14°45' E

Ascend over broken ground

Wash in gulch 20 ft deep bears N $70^{\circ}W$.

Enter cedar timber and scrub brush.

Ridge, 200 ft above last sec. cor. bears E and W. descend

Coule 100 ft below ridge bears W; ascend.

Set a sandstone 20x10x7 ins 15 ins in the ground for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on W face; from which

A cedar tree 8 ins. in diam. bears N $82^{\circ}E$

30 ft dist., marked $\frac{1}{4}$ D.B.H.

A cedar tree 9 ins in diam. bears N $22^{\circ}W$

50 ft dist., marked $\frac{1}{4}$ D.B.H.

14.00 Coule bears W; ascend steep slope.

62.75 Top of ridge 200 ft above coule at 44.00 chs bears E and W.

It is impracticable to set a stone in the ground, & therefore set a sandstone, 16x9x4 ins. in a mound of stone, $1\frac{1}{2}$ ft high 2 ft base for witness to cor to secs 9, 10, 15 and 16, marked W.C. with 4 notches on S. and 3 notches on E edge. Pits imp. No bearing trees available.

There is a high perpendicular cliff a few chains N. of this cor so that it is impossible to set the cor at 80.00 chs. Land, mountainous; soil stony 4th rate.

Timber, cedar.

Mountainous on 62.75 chs.

From the cor. to secs. 16, 17, 20 and 21 I run.
N $0^{\circ}3'W$ bet. secs. 16 and 17

Va 14°41' E

Through dense artemesia undergrowth
Coule bears N $00^{\circ}W$.

Edge of mesa, bears S.E. and N.W.

Foot of mesa 30 ft high.

1.00

14.60

15.30

Subdivision of T. 27 S. R. 23 E. S. L. M.

17.00	Road to Moab bears N 70° W.
20.00	Stock's house bears N $82^{\circ}15' E$.
36.60	Pack creek 10 ft wide, 4 ft deep (dry) bears N 00° W.
32.50	Couler' 30 ft deep bears S. W.
33.20	Road bears E and W
38.00	Couler' bears N 70° W.; have undergrowth, ascend steep slope.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 18x8x3 ins., in a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base, for 1/4 sec. cor., marked 1/4 on W face. Pits imp.
55.00	Top of hill 250 ft above Pack creek, bears E and W; descended to
80.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 18x10x6 ins. in a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base, for cor. to secs. 8, 9, 16 and 17, marked with 4 notches on S, and 4 notches on E edge. Pits imp. Land, mountainous and rolling; soil sandy loam and stony 3 rd and 4 th rate. No timber. dense artemesia undergrowth on 38.00 chs Mountainous on 47.00 chs.

N $89^{\circ}05' E$ on a true line bet. secs. 9 and 16
Va 15 $^{\circ}03' 4'' E$

	ascend
3.00	Wash in gulch bears N. W.
8.00	Ridge 60 ft above sec. cor. bears N 70° W and S.
17.50	Couler' bears N. W.
21.00	Ridge bears N 30° E and N 30° W.
23.00	Enter cedar and pinon timber
38.00	Ridge bears S.
34.30	Wash in gulch 30 ft deep, bears N. W.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 18x14x6 ins. in a mound of stone, 1 $\frac{1}{2}$ ft high,

51.

Subdivision of T 27 N. R 23 E. N.D.W.

2 ft base, for $\frac{1}{4}$ acre, cor. marked $\frac{1}{4}$ on W face, from which
 African tree 9 ins in diam. bears N $3\frac{1}{2}$ ° E
 90 ft dist, marked $\frac{1}{4}$ S.B.G.
 Aspen tree 5 ins in diam, bears N $60^{\circ} W$
 70 ft dist, marked $\frac{1}{4}$ S.B.G.
 It is impossible to run this line further
 because of impassable cliffs which
 cross the line a few chains E of the
 $\frac{1}{4}$ acre. cor.

Grass, mountainous; soil stony, & water.
 Timber, cedar and pinyon.
 Mountainous on 4000 chs.

From the cor to secs. 8, 9, 16 and 17 I run
 N $00^{\circ} 03' W$ bet. secs 8 and 9
 Ra $140^{\circ} 37' E$

descend.

- | | |
|-------|--|
| 1.80 | Wash in gulch 40 ft deep bears W. |
| 4.00 | Ridge bears N $70^{\circ} W$. |
| 7.00 | Foot of hill, enter dense artemesia
undergrowth |
| 31.00 | Coulee 20 ft deep bears N.W. |
| 40.00 | It is impracticable to set a stone in
the ground, therefore set a sandstone
16x10x8 ins, in a mound of stone, $1\frac{1}{2}$ ft
high, 2 ft base, for $\frac{1}{4}$ acre. cor, marked
$\frac{1}{4}$ on W face. Pitō imp. |
| 40.70 | Coulee 30 ft deep bears W. ascend |
| 63.00 | Begins abrupt ascent; have under-
growth. |
| 71.00 | It is impracticable to set a stone in the
ground, therefore set a sandstone
18x10x4 ins, in a mound of stone
$1\frac{1}{2}$ ft high. 2 ft base, for witness
cor to secs. 4, 5, 8 and 9, marked W.C.
with 5 notches on N and 4 notches on E
edge. Pitō imp. |
| | It is impossible to run this line further,
for the witness cor is set at the base of an
impassable cliff. |

Subdivision of T27S. R23E. D.S.M.

Land mountainous, and rolling; soil, stony 3rd and 4th rate
 A few cedar trees along line
 Dense artemesia undergrowth on 56.00
 chs.
 Mountainous on 15.00 chs.

Aug. 25th 1894

Obs on Polaris in camp, 2 o'clock W of cor to
 secs. 15, 16, 21 and 22 in approximate
 Lat $38^{\circ}29'N$. long. $109^{\circ}24'W$.

I turn the telescope on the star at $8^h 23^m$
 mean local ast. time. Aug 25th and
 draw a stalk on line 3 chs. N.

W.C. Polaris Aug 15th $15^h 41.4^m$
 9 days out $\underline{35.3^m}$

W.C. Polaris Aug 24th $15^h 06.1^m$, which
 subtracted from time of obs

Aug 24th $\underline{32^h 23^m}$

Gives hour angle of star $17^h 17^m$

Subtract from $\underline{23^h 56^m}$

Gives argument Table II $6^h 39^m$,

Azimuth of Polaris $1034'E$,

At 6 A.M. Aug 26th the mag. bearing
 of the line established last night is
 $N 13^{\circ}35'W$

North end of needle is $13^{\circ}15'E$

Azimuth of star $\underline{1034'E}$

The sum is the variation $14^{\circ}49'E$

The mean declination is $14046'E$

From the cor. to secs 28, 29, 32 and 33
 I run, W on a true line bet secs. 29
 and 32

At $14050'E$

descend through heavy cedar and
 piñon timber along N slope of hill.

Wash in gulch 50 ft deep bears S.W.

It is impracticable to set a stone in
 the ground, I therefore set a sandstone
 19X11X7 ins in a mound of stones 1/2 ft.

33.50

40.00

Subdivision of 927 S. R 23 E. D.L.W.

high, 2 ft base, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; from which
A pinon tree 7 ins in diam, bears N 18° E
 12 lms dist, marked $\frac{1}{4}$ D. B. G.
A pinon tree 5 ins. in diam. bears $N 54^{\circ}$ E
 7 lms dist, marked $\frac{1}{4}$ D. B. G.
41.00 Wash in gulch 30 ft deep bears N; ascend.
51.50 Top of hill 150 ft above $\frac{1}{4}$ sec. cor.
bears N and S; descend.
60.00 Coulter bears S.W.
69.00 Top of hill bears W.E.
73.00 Leave timber
80.00 It is impracticable to set a stone in the
ground, I therefore set a sandstone 19x10
x8 ins in a mound of stone $1\frac{1}{2}$ ft high,
2 ft base, for cor to secs. 29, 30, 31 and
32, marked with 1 notch on N, and 5
notches on E edge. Pts. imp.
Land, mountainous; soil stony, &
rate.
Heavy cedar and pinon timber on 73.00 chs.
Mountainous on 80.00 chs.

W on a true line bet. secs. 30 and 31

On $14^{\circ}46'$ E

Descend over W slope of hill
Enter heavy cedar timber.
Coulter bears S.
Ridge bears N 30° E; descend
Ledge 20 ft high. bears N and S.
Set a sandstone 20x10x4 ins, 15 ins in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N
face; from which
A pinon tree, 18 ins in diam, bears $S 46^{\circ} W$
 68 lms dist, marked $\frac{1}{4}$ D. B. G.
A pinon tree, 9 ins. in diam. bears N $30^{\circ} W$
 43 lms dist, marked $\frac{1}{4}$ D. B. G.
Foot of hill bears N 30° E; leave timber.
Road from Moab to Monticello bears
S.W.
Coulter bears S.W.

Subdivision of 927 A. R. 23 E. D. L. N.W.

6.000	Enter heavy cedar timber
7.750	Gulch bears S.E.
7.817	Marked cross (+) at exact cor. point with 5 notches on N, and 1 notch on S on a sandstone boulder 6x5x2 ft. above ground, for cor to secs 25, 30, 31 and 32 from which A cedar tree 14 ins in diam. bears W 59° E 56 lms dist., marked 9270 R23 E D 30 B. T.
	A cedar tree 8 ins. in diam bears N 50° E 53 lms dist, marked 9270 R23 E D 31 B. T.
	A cedar tree 8 ins in diam bears N 48 1/2° W 29 lms dist, marked 9270 R22 E D 36 B. T.
	A piñon tree 10 ins in diam, bears N 81 1/2° W 54 lms dist, marked 9270 R22 E D 25 B. T.
	Land, mountainous; soil, stony, 4th rate. Heavy cedar timber on 47.00 chs. Mountainous on 78.17 chs.

Aug 27th 1894

From the cor to secs. 29, 30, 31 and 32 I run
N 00 04' W. bet secs 29 and 30

N 14° 45' E

Ascent.

2.50	Top of mountain bears E and W. W.
16.70	Top of mountain, bears E and W, descend along ridge.
18.00	Enter heavy cedar and piñon timber and undergrowth.
38.30	Cave timber.
40.00	It is impracticable to set a stone in the ground I therefore set a sandstone 15x10x4 ins in a mound of stone, 1 1/2 ft high, 2 ft base, for 1/4 sec cor., marked 1/4 on W face.
	Pits imp. No bearing trees available.
78.20	Foot of mountain. Enter dense artemesia undergrowth
80.00	Set a sandstone 20x6x5 ins 15 ins in the ground, for cor to secs. 19, 20, 29 and 30 marked with 2 notches on S, and 5 notches

Subdivision of 927 A. R. 23 E. S. L. N.W.

on E edge; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base along sides. Bits imp.
Land mountainous; soil stony 3rd and 4th rate.
Heavy cedar and piñon timber a dense artemesia undergrowth on 22.00 chs.
Mountainous on 78.20 chs.

E on a random line bet. secs. 20 and 29
Va $14^{\circ}40' E$

40.00 Set a temporary $\frac{1}{4}$ sec. cor.
80.00 Intersect N and S line 5 ft to S of cor. to secs.
20, 21, 28 and 29
Hence P $89^{\circ}58' W$ on a tree line bet. secs.
20 and 29

Va $14^{\circ}43' E$

Ascend through heavy cedar and piñon timber along N slope of ridge 1
Ridge 75 ft above cor. bears N.E. and N.W.
Leave ridge bears N.E. and S.W.; descend.
40.00 Set a sandstone, $17 \times 10 \times 5$ ins 11 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face; from which
A piñon tree 7 ins. in diam bears. $15^{\circ} W$
6 ft dist, marked $\frac{1}{4} O. B. G.$.

A cedar tree 8 ins in diam, bears $N31^{\circ}E$
30 ft dist; marked $\frac{1}{4} O. B. G.$

52.00 Ridge bears N.E. thence E.; descend

64.40 Coulter bears N.W.

65.00 Leave cedar and piñon timber

67.30 Ridge bears N and S.; descend

71.00 Foot of hill 70 ft below last point; enter dense artemesia undergrowth.

Coulter 20 ft wide, 7 ft deep bears N.

On the cor. to secs. 19, 20, 29 and 30.

Land, mountainous and level; soil stony 3rd and 4th rate.

Heavy cedar and piñon timber over dense artemesia undergrowth on 74.00 chs.
Mountainous on 71.00 chs.

Subdivision of 9270, R 23 E. S.L. NW

	W on a random line bet. secs. 19 and 30 Va $14^{\circ}39' E$.
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
78.14	Intersect W bdy of 9270 N.W. of cor to secs. 19, 24, 25 and 30. Hence true, $189^{\circ}59' E$ on a true line bet. secs. 19 and 30 Va $14^{\circ}39' E$
	Over top of mountain, through dense artemesia undergrowth.
25.00	Enter heavy cedar and piñon timber. Leave undergrowth.
31.00	Begin steep descent.
38.14	Set a sandstone $20 \times 12 \times 7$ ins., 15 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; from which A piñon tree, 10 ins. in diam. bears $N 46\frac{1}{2}' W$ 94° E. dist.; marked $\frac{1}{4}$ D. B.T. No other tree in limit. Pits imp.
46.00	Foot of mountain 200 ft below last sec. cor. Leave timber; enter dense artemesia undergrowth.
52.00	Couler 10 ft wide, 3 ft deep bears $N 30^{\circ} E$
56.20	Point of ridge bears $S 30^{\circ} E$
60.50	Road from Moab to Monticello bears $0 30^{\circ} E$.
78.14	The cor. to secs. 19, 20, 29 and 30. Land mountainous and level, soil very 3 rd and 4 th rate. Heavy cedar and piñon timber or dense artemesia undergrowth on 78.14 chs. Mountainous on 46.00 chs.

$N 0^{\circ}4' W$ bet. secs. 19 and 20

Va $14^{\circ}36' E$

	Through dense artemesia undergrowth over nearly level ground.
7.20	Couler 20 ft wide, 5 ft deep, bears N.W.
20.00	Couler 5 ft wide, 4 ft deep bears N.W.
40.00	Set a sandstone, $14 \times 12 \times 5$ ins 9 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W

Subdivision of T27 S. R23 E. D.L.W.

	face; dug pit 18x18x12 ins. N and D of stone, 5 $\frac{1}{2}$ ft dist., and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base alongside Coulter bears N.W.
57.00	Ridge 25 ft high, bears S 60° E.
65.00	Set a trachite stone 16x10x5 ins, 11 ins in the ground, for cor to secs. 17, 18, 19 and 20 marked with 3 notches on N, and 5 notches on E edge, raised a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp. Sand nearly level; soil clayey 3 rd rate.
80.00	No timber dense artemesia undergrowth on 80.00 chs.
	W 89° 58' E on a random line, bet secs. 17 and 20
	Va 14° 43' E
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.16	Intersect N and S line 2 1/2 ins N of cor to secs. 16, 17, 20 and 21. Thence I run, S 89° 05.9' W on a true line bet. secs 17 and 20
	Va 14° 45' E
5.80	descend through dense artemesia undergrowth
10.00	Coulter bears N.W.; ascend.
20.00	Top of mesa bears N.W. and D.E.
40.08	It is impracticable to set a stone in the ground, I therefore set a sandstone 16x14x6 ins in a mound of stone, 1 $\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ sec cor., marked $\frac{1}{4}$ on N face. Pits imp.
45.00	Top of mesa bears S.E.; descend.
55.20	Coulter 75 ft below top of mesa, bears N.W.
59.50	Point of ridge bears S.E.
80.16	The cor. to secs. 17, 18, 19 and 20 Land hilly; soil gravelly and stony, 3 rd rate. No timber. dense artemesia undergrowth on 80.16 chs

Subdivision of T27S. R29E. J.S. 200.

	W 89°59' W on a random line bet. secs. 18 and 19
	$\Delta \alpha 14^{\circ}43' E$
40.00	Set a temporary $\frac{1}{4}$ sec. cor. Intersects W bdy of township 14 lines. N of cor. to secs. 13, 18, 19 and 24
78.09	Thence down, N 89°55' E on a true line bet. secs. 18 and 19
	$\Delta \alpha 14^{\circ}43' E$
	descend through dense artemesia undergrowth
44.00	Foot of mountain 50 ft below cor.,
30.40	Couler' 30 ft wide, 10 ft deep bears from S to N.W.
35.00	Road to Moab, bears N 30°W and S 30°E.
38.09	Set a trachite stone, 15x9x6 ins. 10 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ cor N face, dug pit 18x18x12 ins. E and W of stone, $5\frac{1}{2}$ ft dist. and raised a mound of earth, $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base alongside
38.70	Couler' 10 ft wide, 6 ft. deep bears N.W.
45.30	Couler' 30 ft wide, 10 ft deep, bears N.W.
63.00	Couler' 30 ft wide 10 ft deep, bears N.W.
78.09	The cor. to secs. 17, 18, 19 and 20. Land nearly level; soil clayey, 3" rate. No timber dense artemesia undergrowth on 78.09 chs.
	N 0°46' W bet. secs. 17 and 18
	$\Delta \alpha 14^{\circ}45' E$
	ascend through dense artemesia under- growth.
10.00	Top of ridge 100 ft high, bears S.E. 3.00 chs and N.W. 2.00 chs.
19.70	Foot of ridge, couler' bears N.W.
34.00	Ridge 140 ft high bears S.E.
38.90	Couler' bears N.W.
40.00	It is impracticable to set a stone in the ground, I therefore set a trachite stone 21x10x7 ins in a mound of stone $1\frac{1}{2}$ ft. high, 2 ft base, for $\frac{1}{4}$ sec. cor.,

Subdivision of T. 27 N. R. 2 E. S. L. M.

	marked $\frac{1}{4}$ on W face. Pits imp. Rock crust (dry) bears N. W. Road to Moab bears N 10° W Coulie bears N 30° W. It is impracticable to set a stone in the ground, I therefore set a sandstone $16 \times 10 \times 5$ ins. in a mound of stone $1\frac{1}{2}$ ft high, 2 ft. base for cor. to secs. 7, 8, 17 and 18, marked with 4 notches on S, and 5 notches on E edge. Pits imp. Land hilly, and rolling; soil, stony 3 rd and 4 th rates. No timber. Dense artemesia undergrowth on 80.00 chs.
W 89° 59' E on a random line bet. secs. 8 and 17	Va $140^{\circ} 47'$ E
40.00	Set a temporary $\frac{1}{4}$ acre. cor.
80.18	Intersect N and S line 5 1/2 ft N of cor. to secs. 8, 9, 16 and 17. Hence from, N $89^{\circ} 59'$ W on a true line bet. secs' 8 and 17
	Va $140^{\circ} 45'$ E
15.50	Descend over N slope of hill. Wash in gulch 30 ft. deep bears N.
29.70	Foot of N slope, coulie bears N.; ascend
37.00	Ridge 75 ft high bears N and S.
40.09	It is impracticable to set a stone in the ground, I therefore set a trachite stone $18 \times 12 \times 8$ ins. in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ acre. cor., marked $\frac{1}{8}$ on N face. Pits imp.
44.80	Wash in gulch 50 ft. deep bears N.
49.00	Ridge 50 ft high bears S.
60.00	Foot of mountain; thence over nearly level ground, through dense artemesia undergrowth to
- 80.18	9 he cor. to secs. 7, 8, 17, and 18. Land mountainous and level; soil, stony

Subdivision of T. 27 S. R. 2 E. D. S. M.

	3 rd and 4 th rate. No timber. Dense artemesia undergrowth on 20.18 chs. Mountainous on 60.00 chs.
40.00	N 0°04' W bet. secs. 7 and 8 Va 14°48'E Gradually ascending through dense artemesia undergrowth. It is impracticable to set a stone in the ground, I therefore set a sandstone 14x7x7 ins. in a mound of stone 1½ ft. high, 2 ft base, for ¼ sec. cor., marked ¼ on W face. Pits imp.
80.00	Set a trachite stone 16x11x6 ins, 11 ins. in the ground for cor. to secs. 5, 6, 7 and 8 marked with 5 notches on S, and 5 notches on E edge; raised a mound of stone 1½ ft high, 2 ft base along side. Pits imp. Land nearly level; soil, gravelly and stony, 3 rd rate. No timber. Dense artemesia undergrowth on 80.00 chs.
	Aug 28 th 1894.
40.00	From the cor to secs. 7, 8, 17 and 18 I run, N 89°55' W on a random line bet secs. 7 and 18. Va 14°05' E
77.94	Set a temporary ¼ sec. cor. Intersect W bdy of 9 p 2 Mts S of cor. to secs. 7, 12, 13 and 18. Thence I run, N 89°56' E on a true line bet. secs. 7 and 18 Va 14°05' E
37.94	Over nearly level ground, through dense artemesia undergrowth. It is impracticable to set a stone in the ground, I therefore set a trachite

Subdivision of T. 27 N. R. 23 E. D. C. M.

	stone 20x8x5 ins. in a mound of stone 1½ ft high, 2 ft. base, for ¼ sec. cor., marked ¼ on N face. Pits imp.
41.20	Pack crust (dry) bears N 30°W.
46.20	Coulé bears N.W., ascend.
56.00	Top of hill 40 ft high bears N.W. The magnetic variation is here de- creased to 140°30' E by local attraction
66.00	Top of hill bears N.W.; descend.
70.50	Foot of hill
73.20	Road to Moab bears N 20°W.
74.80	Coulé bears N 10°W.
77.94	The cor to secs. 7, 8, 17 and 18. Land level and rolling, soil stony and gravelly 3 rd and 4 th rate. No timber.
	Dense artemesia undergrowth on 77.94 chs.

From the cor to secs. 5, 6, 7 and 8.
I am: D 89°59' E on a true line bet. secs.
5 and 8

Va 14°32' E

12.50	Over nearly level ground, through dense artemesia undergrowth Coulé 30 ft deep bears from S.E. to N.
34.00	Ridge 50 ft high bears D 85°E and N 80°W.
40.00	Set a sandstone 18x12x6 ins, 12 ins in the ground for ¼ sec. cor, marked ¼ on N face; raised a mound of stone 1½ ft high, 2 ft base along- side. Pits imp.
56.00	Ascend, leave artemesia undergrowth.
60.00	Ridge 50 ft high bears N 30°W
67.00	Wash in gulch: : 50 ft deep bears S.W.
70.00	Foot of sandstone ledge 40 ft high;
71.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 18x8x6 ins in a mound of stone 1½ ft high, 2 ft. base for witness cor. to secs.

Subdivision of T 27 S. R 23 E. D. L. M.

4, 5, 8 and 9, marshled W.C. with 5 notches on S, and 4 notches on E edge.

Pits imp.

This cor. is at the base of an impassable cliff. I therefore cannot survey this line further. Land level and mountainous; soil stony 3rd and 4th rate.

A few cedar trees aboriginal.

Dense artemesia undergrowth on 56.00 chs.

Mountainous on 15.00 chs.

From the cor. to secs. 5, 6, 7 and 8 I run N 89° 56' W on a random line bet. secs. 6 and 7
 Va 14° 02' E

Set a temporary 1/8 sec. cor.

Intersect W body of Tp. 4 1/2 lbs of cor to secs. 1, 6, 7 and 12.

Thence I run N 89° 58' E on a true line bet. secs. 6 and 7.

Va 14° 04' E

Over nearly level ground, through dense artemesia undergrowth

Road to Moab bears N.W.

Coulee bears N.W.

It is impracticable to set a stone in the ground, I therefore set a trachite stone 16x9x7 ins in a mound of stones. 1 1/2 ft. high, 2 ft base, for 1/8 sec. cor, marshled 1/4 on N face. Pits imp.

Coulee 75 ft wide 15 ft deep bears N.W.

On the cor. to secs. 5, 6, 7 and 8.

Land, nearly level; soil stony, 3rd rate. No timber.

Dense artemesia undergrowth on 77.84 chs.

N 0° 04' W bet secs. 5 and 6

Va 14° 34' E.

Over nearly level ground, through dense artemesia undergrowth.

General description of T27 R28 E. S.D.W.

19.00

Coule' 40 ft deep bears N.W. cascaded
Set a sandstone 18x8x4 ins. 12 ins in the
ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W
face; raised a mound of earth $1\frac{1}{2}$ ft
high, 2 ft base alongside.

There is an impassable cliff about
5 chs. N of this cor. I therefore cannot run line further
Land level and hilly; soil stony 3rd
and 4th rate.

A few cedar timbers along line.
dense artemesia undergrowth on
40.00 chs.

Aug 29th 1894

General Description.

This township lies along the W side
of the La Sal mountains. Its surface
is mostly rough, stony and mountain-
ous. There is some tillable land along
Pack creek in secs. 16, 22, 23, 24 and 25.
Cain Spring Wash runs through the
1 tier of sections. It is a deep rugged
canyon and is impassable excepting
at its upper end as far down as the
line bet. secs 34 and 35.

The northern portion of this township
which is unsurveyed is cut up by
numerous deep canyons and gorges
which are impassable.

The township, generally, is covered
with a fair growth of cedar and
pinon timber or artemesia under-
growth.

Pack creek has water, in places, in
the eastern part of the township.

The water during the dry season is
fully appropriated by the three settlers
enumerated below:

A. G. Barbour, one of the applicants for this
survey, has a log house about 3.00 chs.
 $1^{\circ}20'$ E of the D.E. cor of sec 24.

General Description of T27 N. R23 E. D. S. M.

He has a stable, corral and 1 mile of pole fence and cultivates about 20 acres of land, mostly in secs. 24 and 25. He irrigates by means of a ditch taken out of Pasture creek.

His improvements are valued at \$500⁰⁰.

R. D. Smith, in sec 20 cultivates 30 acres of land. His improvements consisting of log house, barn 1/2 miles of fence and an irrigating ditch are worth \$600⁰⁰.

R. Stocko, located in sec 16, cultivates 40 acres. His improvements are of little character and valued at \$400⁰⁰.

C. Boren the other applicant for this survey lives in T 26 N. R 22 E., in the notes of which township his improvements are described.

The mean declination for the flat, the average of 5 observations is 14° 47' E.

It was impossible to survey sections 31, 32, 33 and 34 on account of impassable cliffs.

Frank E. Baxter
U. S. Dep Surveyor.

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• Is *James.*

A list of the names of the individuals employed by _____

, U. S. Deputy Surveyor, to assist in running, measuring, and
ing the lines and corners described in the foregoing field notes of the survey of the

Meridian, in showing

the respective capacities in which they acted:

Final Oath of Assistants:

We hereby certify that we assisted _____

, U. S. Deputy Surveyor, in surveying all those parts or portions of the

Meridian, as are represented in the
 foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all
 respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
 according to the instructions furnished by the U. S. Surveyor General for

subscribed and sworn to before me this }
day of , 18



I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, the surveying manual, and the laws of the United States, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Subscribed and sworn to before me this _____
day of _____, 18_____. }

U. S. Deputy Surveyor.



Approval.

Office of the U. S. Surveyor General,

Salt Lake City Utah June 6, 1895

The foregoing field notes of the survey of *The Subdivisions of Proprietary*
Range 23 East of the Salt Lake Base Meridian

executed
under his Contract No. 196, dated January 1st, 1894 having been critically
examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, hereby approved.

George W. Snow
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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J. J. B.

FIELD NOTES

OF THE SURVEY OF

The Colorado Guide Meridian Through
 Township 26 South

Of the Salt Lake Meridian,

Possession of Utah

AS SURVEYED BY

Frank C. Baxter, U. S. Deputy Surveyor,

Under his Contract No. 196, dated January 18th, 1894

Survey commenced August 31st, 1894

Survey completed August 31st, 1894.

Daniel Morris Chairman
Wallace Watson "
John Dallin "
Edward Redmond "
Edward Redmond Axeman
Lowell Wells Flagman

INDEX DIAGRAM.
*Colorado Guide Meridian through
 Township 26 S., Ranges 23 and 24 E.*

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Meanders Page.....

WE, _____

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the _____

_____, Chainman.

_____, Chainman.

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____
day of _____, 18 _____. }

WE, _____

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the _____

Subscribed and sworn to before me this _____, Axeman.
day of _____, 18 _____. } _____, Axeman.

Colorado Guide Meridian through 9260 D.S.W.

Survey commenced Aug 31st 1894
 I test the adjustments of my transit
 and the length of my chain before
 going to work and find them correct.
 Draw the cor. to 9 ps 26 and 27 S. Ro 23
^{as hereinbefore described}
 and 24 E, I take a backsight on the
 Colorado Guide Meridian and
 thence I run N. bet secs. 31 and 36

Va 14° 48' E

Ascend steep slope through heavy
 cedar and piñon timber over N side
 of Mies creek cañon

- 70.0 Rim of cañon 275 ft above cor.; ascend
 25.00 Leave timber; enter dense oak under-
 growth
 32.50 Point of ridge 100 ft above rim of
 cañon, bears E, descends gradually to
 set a sandstone 18x6x3 ins. 12 ins in the
 ground, for 1/4 sec. cor., marked 1/4 on
 W face; raised a mound of stone 1 1/2 ft
 high, 2 ft base along ridge. Pit 5 imp.
 70.20 Head of cañon bears S.W., ascend
 - 80.00 It is impracticable to set a stone in
 the ground, & therefore set a sandstone
 16x9x7 ins in a mound of stone, 1 1/2 ft
 high, 2 ft base, for cor to secs. 25, 30, 31
 and 36, marked with 5 notches on N, and
 1 notch on S edge. Pit 5 imp.
 Land mountainous; soil stony
 3rd and 4th rate.
 Heavy cedar and piñon timber or
 dense oak undergrowth on 8000 chs.

X N bet secs 25 and 30

Va 14° 42' E

Ascend through dense oak under-
 growth

- 8.00 Enter heavy cedar and piñon timber;
 leave undergrowth.
 20.00 Enter dense oak undergrowth; leave timber
 22.30 Edge of plateau bears E 200 ft above sec. cor.

Colorado Guide Meridian Through T. 26 S. D. L. N.

32.00	Edge of plateau bears N.E.; descend.
40.00	It is impracticable to set a stone in the ground; I therefore set a sandstone 16x10x5 ins, in a mound of stone, 1 $\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face. Pits imp.
46.00	Wash in gulch 200 ft below top of plateau bears W.
80.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 17x8x6 ins in a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base for cor. to secs. 19, 24, 25 and 30, marked with 4 notches on N, and 2 notches on S edge. Pits imp. Sand mountainous; soil stony 3 rd and 4 th rate. Heavy cedar and pinon timber or dense oak undergrowth on 80.00 chs.

N bet secs. 19 and 24

fa $14^{\circ}40' E$

Ascend through dense oak under-growth

4.00	Stream 3 lms wide bears $060^{\circ} W$
13.50	Spring of pure water 50 lms E of line.
13.50	Stony ridge 40 ft high bears $225^{\circ} W$ 10 chs.
30.00	Along W slope of mountain
40.00	It is impracticable to set a stone in the ground; I therefore set a sandstone 22x10x3 ins, in a mound of stone, 1 $\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face. Pits imp.
54.00	Leave W slope of mountain
67.40	In all spring 150 lms E; wash in gulch 2 5 ft deep, bears W; thence over rolling ground
77.50	Wash in gulch 20 ft deep bears $070^{\circ} W$
80.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 21x9x8 ins. in a mound of stone, 1 $\frac{1}{2}$ ft

Colorado Grid Meridians Through 926 S. U.S.M.

high, 2 ft base, for cor. to secs. 13, 18, 19 and 24, marked with 3 notches on N and S edges. Pits imp.

Land mountainous; soil stony 3rd rate.

Dense oak undergrowth on 80.00 chs.

X

N bet. secs 13 and 18

Ro 14°42' E

Ascent over rolling ground through dense oak undergrowth.

10.00 Wash in gulch 30 ft deep, bears W.

10.50 Irrigating ditch bears W.

It is impracticable to set a stone in the ground, I therefore set a sandstone 17x6x6 ins, in a mound of stone, 1 1/2 ft high, 2 ft base, for 1/4 sec. cor., marked 1/4 on W face. Pits imp.

46.30 Wash in gulch 30 ft deep bears W.

60.00 Descend over N.E. slope of hill 70 ft to

80.00 Marked cross at exact cor. point with 2 notches on N and 4 notches S of cross on a ledge of rock for cor. to secs. 7, 12, 13 and 18, and raised a mound of stone 1 1/2 ft high 2 ft base along sides.

Land rolling; soil stony 3rd rate.

Dense oak undergrowth on 80.00 chs.

N bet. secs. 7 and 12

Ro 14°45' E

Descend steep slope through dense oak undergrowth.

23.40 Road from Little Castle Valley to Moab bears N 70°W & S. E.

24.50 Coule 125 ft below sec. cor., bears N 70°W, ascend.

37.00 Leave oak undergrowth

40.00 Set a sandstone 20x8x6 ins, 15 ins in the ground for 1/4 sec. cor. marked 1/4 on W face; raised a mound of stone

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Colorado Guide Meridian Through T 26 N. R. 2 W.

	covered with earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside. Pits imp.
7800	Enter dense oak undergrowth
80.00	It is impracticable to set a stone in the ground, therefore set a sand stone $18 \times 10 \times 6$ ins., in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base, for cor to see. 1, 6, 7 and 12 marked with 1 notch on N, and 5 notches on S edge. Pits imp.
	Sand mountainous; soil stony 3 rd rate.
	No timber
	Mountainous on 80.00 chs.
	Aug 31 st , 1894
	10 chs N of this cor. there is a cliff forming part of an abrupt descent of 1650 ft into Little Castle Valley, I therefore discontinue my line at this point.
	Township 26 N. R 2 4 E has from 1 to 2 miles, in width, of mountainous, though good grazing land along its W edge. The balance of the Tp. is precipitous lying on the steep rocky slopes of the La Sal mountains. For description of T 26 N R 2 3 E see subdivisional notes of said township.
	Frank E Baxter U. S. Dep. Surveyor.

ist of Names.

A list of the names of the individuals employed by

....., U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the

..... Meridian, in, showing
no respective capacities in which they acted:

Final Oath of Assistants:

We hereby certify that we assisted

....., U. S. Deputy Surveyor, in surveying all

those parts or portions of the

..... Meridian,, as are represented in the
foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all
respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
according to the instructions furnished by the U. S. Surveyor General for

Subscribed and sworn to before me this }
day of , 18



Final Oath of Deputy Surveyor.

I, _____, U. S. Deputy Surveyor, solemnly swear that, in pursuance of instructions received from _____, U. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in conformity with the instructions furnished by the U. S. Surveyor General for _____, surveying manual, and the laws of the United States, surveyed all those parts or portions of

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that the corners of said survey have been established and perpetuated in strict accordance with the surveying printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Subscribed and sworn to before me this _____ }
day of _____, 18_____. }

U. S. Deputy Surveyor



Approval.

Office of the U. S. Surveyor General,

Salt Lake City June 16, 1895

The foregoing field notes of the survey of *The Colorado Grid Meridians through Township 26 South between Range 33 & 34 East of the Salt Lake Base Meridian*

executed
Frank E. Baker
under his Contract No. *196*, dated *January 18th*, 1894 having been examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, hereby approved.

George W. Snow
U. S. Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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W.M.
G.J.B.

G.J.B.

FIELD NOTES

OF THE SURVEY OF

The Subdivision of Township 26 South
 Range 23 East

Of the Salt Lake Meridian,

Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

Under his Contract No. 196, dated January 18th 1894.

Survey commenced September 1st, 1894.

Survey completed September 9th, 1894.

(12003-2,000.)

H. E. F. B. S. A. V.

Names and Duties of Assistants.

<u>Samuel Morris</u>	<u>Chairman</u>
<u>Wallace Watson</u>	<u>Chairman</u>
<u>Edward Redmond</u>	<u>Axeman</u>
<u>Lovell Wells</u>	<u>Glauman</u>

INDEX DIAGRAM.

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Meanders Page.....

Preliminary Oaths of Assistants.

We, _____

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

-, Chairman.

..., Chairman.

-, Chairman.

..., Chairman.

WE, _____

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the _____

Subscribed and sworn to before me this } , Axeman.
day of....., 18 . } , Axeman.

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Subdivision of T. 26 S. R. 2 E. A. L. M.

Survey commenced Sept 1st 1894
 The southern portion of secs 35 and 36 being unsurveyed in the usual manner on
 account of inaccessibility - cliffs, etc. etc. and the roads leading through them are not yet completed.
 I set my instrument on the Col's Gully [sic] therefore.

Meridian over the coulees secs. 25, 30, 31
 and 36 in Lat. $38^{\circ}30'52''N$ long. $109^{\circ}21'W$
 and take the following Obs on the sun
 for meridian at 7:30 A.M.

Alt.	Hor angle right.
$20^{\circ}20'$	$95^{\circ}47'$
$20^{\circ}26'$	$95^{\circ}51'$
$20^{\circ}33'$	$95^{\circ}58'$
<u>$20^{\circ}39'$</u>	<u>$96^{\circ}02'$</u>
sun $81^{\circ}58'$	sun $38^{\circ}38'$
mean $20^{\circ}29'30''$	mean $95^{\circ}54'45''$
Ref - <u>$2^{\circ}30'$</u>	
$h = 20^{\circ}27'$	

Sun's decl Sept 1st (aphem) $8^{\circ}11'59''$
 $- 54.56 \times 2.5 \quad 2'16''$

Decl Sept 1st 7:30 A.M. $8^{\circ}09'43''$

PD = $90 - 8^{\circ}09'43'' = 81^{\circ}50'17''$

h , log cos. of $20^{\circ}27'00'' = 9.971729$

L, " " $38^{\circ}30'52'' = 9.893457$

ZD. $140^{\circ}48'09'' / 19.865186$ (a)
 $\frac{1}{2}(\alpha) 9.932593$ (b)

D. log cos of $70^{\circ}24'04'' = 9.525606$

D-PD. " " $11026'13'' = 9.991289$

sun 19.516895

$\frac{1}{2}(\alpha) 9.758447$

sub (b) 9.932593

$\frac{1}{2}Z$ log cos of $4757'33'' = 9.825854$

$Z = 95^{\circ}55'06''$

Hor angle right $95^{\circ}54'30''$

Ref line bears N $36''8''$

I turn $\frac{1}{2}$ left and find the true bearing of the true meridian to be N $140^{\circ}47'W$
 the mean declination, then, is $140^{\circ}43'E$.

X W on a true line bet secs. 25 and 36

at $140^{\circ}47'E$

Access through dense oak and spruce underbrush.

Ridge 60 ft above sec. cor. bears N $140^{\circ}47'W$

Subdivision of 926 D. R. & E. I. L. M.

20.90	Stream 1 ft wide, bears S.
34.00	Foot of slope; ascend
40.00	Set a sandstone 14x10x6 ins., 9 ins in the ground, for $\frac{1}{4}$ sec. cor. marbled yellow N face, carries a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base along sides. Pits up.
47.50	Top of ridge 40 ft above 44 sec. cor., bears N.E. and S.W., descend.
59.00	Beg in steep descent.
70.00	It is impracticable to set a stone in the ground, therefore set a sandstone 23x6 x4 ins. in a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base, for cor to secs. 25, 26, 35 and 36, marbled with 1 notch on S and 1 notch on E edge. Pits up. Lands, rolling; soil, sandy loam and stony 2 nd and 3 rd rate. No timber. Dense oak and spruce underbrush on 80.00 chs.

Doors 6 feet across. 3 and 6 on a line line
Va 140 44' E

Along W slope of hill, through dense oak underbrush.

5.00	Rim of hill bears S.W., thence over slightly rolling ground.
36.00	Enter heavy cedar and spruce timber, descend over E slope of hill
40.00	Set a sandstone 16x15x14 ins., 10 ins in the ground for $\frac{1}{4}$ sec. cor. marbled $\frac{1}{4}$ on W face, from which spruce tree 4 ins in diam bears N 33° E 9 ft dist. marbled $\frac{1}{4}$ D. 13.9. A cedar tree 8 ins in diam bears N 38° W 21 ft dist. marbled $\frac{1}{4}$ D. 08.9. The N wall of Mill creek canon is about 20 chs. O of this cor. The canon is impassable therefore discontinuous very high at the $\frac{1}{4}$ sec. cor. Lands, rolling; soil sandy loam 2 nd and 3 rd rate.

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Subdivision of T. 26 S. R. 23 E. D. S. M.

26 heavy cedar and piñon timber or dense oak underbrush on 4000 chs.

From the cor. to secs. 25, 26, 35 and 36
Run N. 0° 0' W bet secs. 25 and 26

Va 14° 43' E

Ascend through dense oak underbrush

2.50 Rim of hill bears 4.00 chs. N. W., thence W.

2.700 Wash in gulch 30 ft deep bears W.

2.700 Ridge 60 ft high, bears N.E.

3.4.00 Descend along W slope.

4.0.00 It is impracticable to set a stone in the ground, I therefore set a sandstone 17x12x5 ins, in a mound of stone 1½ ft high, 2 ft base, for ¼ sec. cor. marked ¼ on W face. Pits up.

4.5.00 Rim of canon

5.7.00 Wash in bottom of canon 200 ft deep
bears N.W.; stream 3 ft wide; ascend.

6.7.00 Rim of canon, ascend to

8.0.00 It is impracticable to set a stone in the ground, I therefore set a sandstone 24x12x6 ins, in a mound of stone 1½ ft high, 2 ft base, for cor. to secs. 23, 24, 25 and 26, marked with 3 notches on S. and 1 notch on E edge. Pits up.
Land mountainous; soil stony 3rd and 4th rate. No timber

Dense underbrush on 80.00 chs.

Mountainous on 80.00 chs.

On a random line bet secs 24 and 25

Va 14° 39' E

4.0.00 Set a temporary ¼ sec. cor.

8.0.01 Intersect the Colo. Guide Meridian 12 1/2°
of cor to secs. 19, 24, 25 and 30

Thence run, 089° 55' W on a true line
bet. secs. 24 and 25

Va 14° 39' E.

Through dense oak underbrush
along N slope of hill

Subdivision of T. 26 S. R. 28 E. D. L. M.

800	Leave N. slope.
16.40	Stream 2 lms wide bears S 70° W.
27.50	Top of hill bears N and S; descend
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone $14 \times 10 \times 3$ ins., in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face. Pits imp.
46.20	Wash in gulch 130 ft below point at 27.50 Coulis bears S.
51.70	Ridge 75 ft high bears N.E.; descend to
61.20	The cor to secs. 23, 24, 25 and 26
- 80.01	Land mountainous; soil, stony 3 rd and 4 th rate. No timber Dense oak undergrowth on 80.01 chs.
<hr/>	
N 0° 0' W bet secs. 23 and 24	
Va 14° 42' E	
Through dense oak and squaw under growth, over W slope of hill.	
29.50	Wash in gulch 100 ft deep bears S; enter heavy cedar and piñon timber; leave undergrowth; ascend.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 15×12 $\times 6$ ins., in a mound of stone, $1\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face, from which A piñon tree 7 ins in diam. bears N 68° E 20 lms dist, marked $\frac{1}{4} S. B. T.$ A piñon tree 10 ins in diam bears N 53° W 22 lms dist, marked $\frac{1}{4} S. B. T.$
47.00	Leave timber; enter dense oak under growth.
49.00	Ridge 50 ft above $\frac{1}{4}$ sec. cor. bears N.E.
53.00	Head of gulch bears S 80° W
76.00	Wash in gulch 40 ft deep bears W.
78.00	Enter heavy cedar and piñon timber
- 80.00	It is impracticable to set a stone in the ground, I therefore set a sandstone

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Subdivisions of T26 S. R. 23 E. S. L. M.

17x10x8 ins in a mound of stone $1\frac{1}{2}$ ft high, 2 ft. base, for cor. to secs. 13, 14, 23 and 24 marked with 3 notches on N and 1 notch on E edge, from which a piñon tree 10 ins. in diam. bears N 30° E 154 ft No dist. marked T26 S R 23 E D 13 B 7. Cedar tree 8 ins in diam. bears S 18° E 46 ft no dist. marked T26 S R 23 E D 24 B 7. A cedar tree 10 ins in diam. bears S 3° W 36 ft No dist. marked T26 S R 23 E D 23 B 7. Piñon tree 8 ins. in diam. bears N 63° W 74 ft No dist. marked T26 S R 23 E D 14 B 7. Land, mountainous; soil stony 4th rate.

Heavy cedar and piñon timber or dense oak and spruce undergrowth on 80.00 chs.

N. 89°55' E on a random line bet. secs 13 and 24

Va $14^{\circ}42'$ E

- 40.00 Set a temporary $\frac{1}{4}$ sec. cor.
80.20 Intersect the Colo. Guide Meridian
2 ft. N of cor. to secs. 13, 18, 19 and 24.
Thence turn, N $89^{\circ}56'$ W on a true line
bet secs. 13 and 24.

Va $14^{\circ}42'$ E

- Along S slope of hill, through dense oak
and spruce undergrowth.
38.20 Top of ridge; descended along ridge
40.10 Set a sandstone 16x10x3 ins, 10 ins in the
ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on
W face; raised a mound of stone
 $1\frac{1}{2}$ ft high, 2 ft base along alld. Pits imp.
58.60 Wash in gulch bears S.W. 400 chs. thence W
74.20 Leave undergrowth; enter heavy cedar
and piñon timber
80.20 The cor to secs. 13, 14, 23 and 24.
Land, mountainous; soil stony 4th rate.
Dense oak and spruce undergrowth or
heavy cedar and piñon timber on 80.20 chs.

Subdivision of T. 26 S. R. 2 E. D. L. N. W.

	N $0^{\circ} 0' W$ bet secs. 13 and 14 Va $14^{\circ} 38' E$ ascend through dense oak and spruce underbrush and cedar and pinyon timber. Leave timber.
6.00	Ridge 150 ft above sec. cor. bears E and W.
20.00	Set a sandstone 16x12x6 ins 11 ins in the ground
40.00	for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on W face; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside Pito imp.
76.00	Ridge bears S. E.; descend.
80.00	Set a granite stone 20x13x10 ins, 15 ins in the ground for cor to secs. 11, 12, 13 and 14. marked with 4 notches on S, and 1 notch on E edge; raised a mound of stone, $1\frac{1}{2}$ ft high, 2 ft base alongside Pito imp. Land, mountainous; soil stony 4 th rate. Timber cedar and pinyon. Dense oak and spruce undergrowth on 80.00 chs.
	N $89^{\circ} 56' E$ on a random line bet secs 12 and 13 Va $14^{\circ} 38' E$
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.03	Intersect Colo. Guide Meridians 5 miles N of cor to secs. 7, 12, 13 and 18 Thence down, $089^{\circ} 58' W$ on a true line bet. secs. 12 and 13 Va $14^{\circ} 38' E$
110.01	Descend through dense oak underbrush Set a sandstone 18x8x5 ins, 12 ins in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside Pito imp.
61.50	Coule bears N. W. 350 ft below sec. cor. ascend steep slope.
80.03	The cor to secs. 11, 12, 13 and 14, 200 ft above coule at 61.50. Land mountainous; soil stony 3 rd and 4 th rate. No timber Dense oak underbrush on 80.03 chs
	Sept 1 st 1894

Subdivision of T. 26 S. R. 2 E. D. C. N.W.

Drive north cor to secs 25, 26, 35 and 36
I run W on a true line bet secs 26 and 35
Va $14^{\circ} 43' E$

Descend over W slope of hill, through
dense oak and spruce undergrowth
Foot of steep slope; thence along foot
of N hill side.

39.00 Coule bears $130^{\circ} W$.

40.00 Set a sandstone 20x14x7 ins 15 ins in
the ground, for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N face; raised a mound of stone
 $1\frac{1}{2}$ ft high 2 ft base alongside. Pts up.
43.70 Coule bears S; ascend over N.E. slope
of hill; leave undergrowth and enter
heavy cedar and piñon timber

58.00 Ridge 75 ft above $\frac{1}{4}$ sec. cor bears
N.E. and S.W.; descend.

60.00 Leave timber; enter dense under-
growth

78.50 Enter heavy cedar and piñon timber

80.00 Set a sandstone 1.9x9x3 ins, 13 ins
in the ground, for cor. to secs. 26, 27
34 and 35, marked with 1 notch on N,
and 2 notches on E edge, from which
A piñon tree 16 ins in diam. bears
 $N 73\frac{1}{2}^{\circ} E$ 96 lms dist, marked 9260
R 23 E 026 139.

A piñon tree 8 ins in diam bears $027\frac{1}{2}^{\circ} E$
25 lms dist. marked 9260 R 23 E 035 139.

A cedar tree 8 ins. in diam. bears $039^{\circ} W$
9 lms dist, marked 9260 R 23 E 034 139.

A piñon tree 10 ins in diam bears $W 34^{\circ} W$
127 lms dist. marked 9260 R 23 E 027 139.

Land mountainous; soil stony 4th rate
Heavy cedar and piñon timber or dense
oak and spruce undergrowth on
80.00 chs.

Mountain cross on 80.00 chs.

$100^{\circ} E$ bet secs. 34 and 35 on true line
Va $14^{\circ} 42' E$

Subdivision of T. 26 S. R. 23 E. D. L. W.

	Through heavy piñon and cedar timber gradually descending
31.50	Edge of mesa, bears $030^{\circ}W$, descend.
40.00	Set a sandstone $17 \times 8 \times 3$ ins 12 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face, from which A cedar tree 10 ins in diam bears $072\frac{1}{2}^{\circ}E$ 43 lfts dist. marked $\frac{1}{4}D.B.G.$
	A piñon tree 9 ins. in diam. bears $055^{\circ}E$ 9 lfts dist., marked $\frac{1}{4}D.B.G.$
41.90	Coule 15 ft wide 3 ft deep bears $020^{\circ}W$, 80 ft below edge of mesa
47.80	Coule 30 ft wide. 4 ft deep bears $0.W.$
63.20	Coule 30 ft wide 12 ft deep bears $070^{\circ}E$
80.00	Set a sandstone $20 \times 12 \times 3$ ins, 15 ins in the ground, for cor. to secs. 2, 3, 34 and 35 ^{an off body off top} marked with 2 notches on E, and 4 notches on W edge, from which A piñon tree 16 ins in diam bears $074\frac{1}{2}^{\circ}E$ 175 lfts dist. marked $926D.R.23E035B.G.$
	A piñon tree 10 ins in diam bears $071^{\circ}E$ 210 lfts dist., marked $927D.R.23E02B.G.$
	A cedar tree 12 ins in diam bears $087\frac{1}{2}^{\circ}W$ 182 lfts dist., marked $927D.R.23E03B.G.$
	A piñon tree 10 ins in diam. bears $060^{\circ}W$ 208 lfts dist., marked $926D.R.23E034B.G.$
	Land rolling and broken; soil strong 4th rate.
	Heavy piñon and cedar timber on 80.00 chs.

I return to the cor. to secs 26, 27, 34 and 35
Thence I run $1000^{\prime}W$ but secs. 26 and 27
 $\frac{1}{4} 140^{\circ}40'E$

	descend gradually through piñon timber and dense artemesia undergrowth
1.00	Leave timber
19.00	Foot of slope; ascend gradually
40.00	Set a sandstone, $16 \times 6 \times 5$ ins, 10 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits $18 \times 18 \times 12$ ins

Subdivision of T. 26 S. R. 23 E. A.S. M.

- M and S of stone, 5½ ft dist. and raised a mound of earth 1½ ft high, 3½ ft base alongside.
- 43.50 Coule 20 ft wide, 4 ft deep, bears N 60° W
- 47.00 Enter heavy piñon and cedar timber leave undergrowth.
- 54.00 Ascend S slope of hill
- 61.50 Point of hill 100 ft high bears E
- 80.00 It is impracticable to set a stone in the ground, I therefore set a sandstone 17X 15X4 ins in a mound of stone 1½ ft high 2 ft base, for cor to secs. 22, 23, 26 and 27, marked with 2 notches on N and 2 notches on E edge, from which a cedar tree 6 ins in diam bears N 58° E 16 ft dist, marked T 26 R 23 E D 23 B 9. A piñon tree 8 ins in diam. bears N 28° E 16 3 ft dist, marked T 26 R 23 E D 26 B 9. Piñon tree 15 ins in diam. bears N 82° W 47 ft dist, marked T 26 R 23 E D 27 B 9. A cedar tree 5 ins in diam bears N 28° W 15 ft dist marked T 26 R 23 E D 22 B 9. Land mountainous and level; soil sandy and stony, 2nd and 4th ratio. Heavy piñon and cedar timber or dense Artemesia undergrowth on 8000 chs.

E on a random line bet secs 23 and 26

Ra 14° 42' E

- 40.00 Set a temporary ¼ sec. cor.
- 79.95 Intersect N and S line 5 ft dist S of cor. to secs. 23, 24, 25 and 26
Thence down, N 89° 58' W on a true line bet. secs. 23 and 26

Ra 14° 42' E

- Descend through dense oak underbrush
- Enter heavy cedar and piñon timber
- Top of ledge of rock; begin abrupt descent.
- 38.00 Wash in bottom of gorge bears N.W. 100 ft

(cont.)

Subdivision of 926 D. R 23 E. D.L.W.

	deep, 500 ft below last sec. cor.
39.97	Left bank of gorge, it is impracticable to set a stone in the ground, I therefore set a sandstone $12 \times 10 \times 3$ ins in a mound of stone, $1\frac{1}{2}$ ft high 2 ft base, for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on N face, from which Apinon tree 10 ins in diam bears $054^{\circ} E$ 12 lms dist, marked $\frac{1}{4} D. B. S.$.
	Apinon tree 8 ins. in diam. bears $N 50^{\circ} W$ 42 lms dist, marked $\frac{1}{4} D. B. S.$.
49.00	Ridge 50 ft above $\frac{1}{4}$ sec. cor bears S.E.
52.60	Wash in gulch 50 ft deep bears $N 30^{\circ} W$
	Thence along N slope of hill, ascending
70.50	A point 150 ft above $\frac{1}{4}$ sec cor, descend
	along N slope of hill 100 ft to.
79.95	The cor. to secs. 22, 23, 26 and 27. Land mountainous; soil stony 4 th rate. Heavy cedar and pinon timber or dense undergrowth on 79.95 chs.
	Sept 4 th 1894

I test the adjustment of my transit and length of my chain and find them correct. I then go to the cor to secs 26, 27, 34 and 35 and thence I run W on a true line bet secs 27 and 34

$0 a 14^{\circ} 43' E$

	descend gradually, through heavy pinon and cedar timber.
18.50	Leave timber; enter dense spruce and oak undergrowth
34.00	Enter heavy pinon and cedar timber
40.00	It is impracticable to set a stone in the ground, I therefore set an agate stone $12 \times 11 \times 6$ ins, in a mound of stone $1\frac{1}{2}$ ft high 2 ft base, for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on N face. Pits imp. No bearing trees available.

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Subdivision of T. 26 S. R. 23 E. A. L. M.

71.50	Top of ledge 20 ft high bears N.W. Set a sandstone 19x9x5 ins 14 ins in the ground for cor to secs. 27, 28, 33 and 34, marked with 1 notch on N and 3 notches on E edge, from which
80.00	A cedar tree 10 ins in diam. bears N 52° E 62 lms dist, marked T 26 R 23 E D 27 B.T. A pinon tree 9 ins in diam. bears N 60° E 15 lms dist, marked T 26 R 23 E D 34 B.T. A pinon tree 5 ins in diam. bears N 45° W 25 lms dist, marked T 26 R 23 E D 33 B.T. A pinon tree 10 ins in diam. bears N 27° W 40 lms dist, marked T 26 R 23 E D 28 B.T. The rim of the plateau which it is impossible to descend is about 6.00 chs W of this cor, therefore cannot extend lines further N. or W. Land nearly level, soil stony & sandy with some heavy pinon and cedar timber or dense sagebrush underbrush on 8000 chs

N 00°2' W bet secs 27 and 28

Va 140 42' E

3.40	Ascend gradually through heavy pinon and cedar timber
14.26	Top of ledge 30 ft high bears N.W. A pinon tree, 10 ins in diam. a live tree marked with 2 notches on N and S sides.
34.50	Leave timber; enter dense artemesia undergrowth
40.00	Set a post 3x3 ins. 3 ft long with marked stone, 12 ins in the ground for 1/4 sec. cor, marked 1/4 S. or W. face, dug pits 18x18x12 ins N and S of post, 5 1/2 ft dist, and raised a mound of earth 1 1/2 ft high, 3 1/2 ft base around post.
63.00	Enter heavy pinon and cedar timber.
73.00	Wash in gorge 75 ft deep, bears N 80° W
80.00	Set a sandstone 24x8x4 ins 18 ins in the ground for cor. to secs. 21, 22, 27 and 28, marked with 3 notches on N and 3 notches on E edge, from which

Subdivision of T. 26. R. 23 E. I. L. M.

	<p>A piñon tree 8 ins. in diam. bears N 20° E 41 chs dist. marked T 26 S. R 23 E 022 B.T.</p> <p>A piñon tree 7 ins in diam. bears N 39° E 54 chs dist. marked T 26 S R 23 E 027 B.T.</p> <p>A piñon tree 9 ins in diam. bears N 68° W 20 chs dist. marked T 26 S. R 23 E 028 B.T.</p> <p>A piñon tree 8 ins in diam. bears N 71° W 26 chs dist. marked T 26 S. R 23 E 021 B.T.</p> <p>Sand slightly rolling; soil sandy and stony 3rd and 4th rate.</p> <p>Heavy piñon and cedar timber or dense Artemesia undergrowth on 80.00 chs.</p>
40.00	<p>E on a random line bet. secs. 22 and 27 Va $14^{\circ} 38'$ E.</p> <p>Set a temporary $\frac{1}{4}$ sec. cor.</p>
80.00	<p>Intersect N and S line 12 chs N of cor. to secs. 22, 23, 26 and 27.</p> <p>Thence N $89^{\circ} 55'$ W on a true line bet. secs. 22 and 27.</p> <p>Va $14^{\circ} 38'$ E</p> <p>Descend through heavy piñon and cedar timber.</p>
25.00	<p>Rim of mesa, ledge 60 ft high, 1 offset 2.00 chs S</p>
40.00	<p>I measure 1.36 chs N and set 64 chs S of line on edge of cliff a sandstone 26 x 10 x 5 ins 10 ins in the ground for witness to $\frac{1}{4}$ sec cor, marked W.C. $\frac{1}{4}$ on N face, from which</p>
	<p>A cedar tree 10 ins in diam bears N 12° E 13 chs dist, marked $\frac{1}{4}$ S.W.C. B.T.</p>
	<p>A piñon tree 5 ins in diam. bears N 57° W 38 chs dist, marked $\frac{1}{4}$ S.W.C. B.T.</p>
	<p>At 4800 chs I measure 2 chs N to my line and 50 chs E to</p>
47.50	<p>Rim of plateau; cliff 50 ft high bears N.W and S.</p>
- 80.00	<p>The cor. to secs. 21, 22, 27 and 28.</p> <p>Sand slightly rolling; soil stony 4th rate.</p> <p>Heavy piñon and cedar timber on 80.00 chs</p>

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Subdivision of 926 D.R. 23 E. D.L.W.

From the cor. to secs. 22, 23, 26 and 27 from
N 00°. W bet. secs. 22 and 23

Va 14° 40' E

Descend over N slope of hill through heavy
cedar and piñon timber

24.00 Wash in gorge 100 ft wide 100 ft deep, 200
ft below last sec. cor. bears N 70° W.
ascend S slope of hill

39.40 Top of ledge 20 ft high.

40.00 It is impracticable to set a stone in the
ground, I therefore set a sandstone 22x7x6 ins
in a mound of stone 1½ ft high, 2 ft base
for ¼ sec. cor. marked ¼ on W face, from
which

A piñon tree 12 ins. in diam bears N 25° E
29 lks dist. marked ¼ D.B.G.

A piñon tree 6 ins in diam bears S 12° W.
21 lks dist. marked ¼ A.B.G.

62.50 Top of ridge 400 ft above bottom of gorge
bears E and N.W.

76.50 Gulch 50 ft dep bears S. W.

80.00 It is impracticable to set a stone in the ground
I therefore set a sandstone 26x15x5 ins in a
mound of stone 1½ ft high, 2 ft base, for
cor. to secs. 14, 15, 22 and 23, marked
with 3 notches on S, and 2 notches on E
edge, from which

A piñon tree 16 ins in diam bears N 84° E
131 lks dist. marked 926 D.R. 23 E D 14 B.G.

A cedar tree 10 ins in diam. bears S 45½° E
141 lks dist. marked 926 D.R. 23 E D 23 B.G.

A cedar tree 8 ins. in diam. bears S 68° W 27 lks
dist. marked 926 D.R. 23 E D 22 B.G.

A piñon tree 10 ins in diam. bears N 67½° W
57 lks dist. marked 926 D.R. 23 E D 15 B.G.

Sand mountainous; soil stony, 4th rate.

Heavy piñon and cedar timber on 80.00 chs.

N 89° 58' E on a random line bet. secs. 14 and 23

Va 14° 40' E

Set a temporary ¼ sec. cor.

Subdivision of T 26 D R 23 E I. S. W.

80.05	Intersect N and S line 100 ft N of cor to secs 13, 14, 23 and 24. Thence down, N 89° 56' W on a true line bet. secs. 14 and 23 Va 14° 40' E
24.0	Through heavy cedar and piñon timber Leave timber, enter dense oak and spruce undergrowth
20.60	Gulch 30 ft deep bears S.
40.02	It is impracticable to set a stone in the ground I therefore set a sandstone 18x13x5 ins in a mound of stone 1½ ft high, 2 ft base for ¼ sec cor, marked ¼ on N face. Pits imp.
47.00	Top of hill bears N.E. and S.W.
76.00	Enter heavy cedar and piñon timber
50.05	The cor to secs 14, 15, 22 and 23, a point 300 ft below top of hill at 4700 chs. Land, mountainous; soil stony & thin Heavy cedar and piñon timber or dense oak and spruce undergrowth on 80.05 chs.

Sept 5th 1894

At 8:20 P.M. mean location Sept 5th
I direct my telescope on Polaris at
Eastern elongation, my instrument
being set over the cor to secs. 11, 12, 13
and 14. I drive a stake on line
3.00 chs N.

At 8 A.M. Sept 6th I find the magnetic
bearing of the line established last
night to be N 13° 07' W

The N end of the needle is 13° 07' E

Azimuth of Polaris 13° 7' E

The sum is the variation, 4° 44' E

And the mean declination is 14° 41' E

Thence I run N 0° 0' W bet secs. 11 and 12

Va 14° 44' E

Descend over N slope of mountain, through
dense oak undergrowth

23.30 Road bears S 70° W and N 70° E

Subdivision of 926 A.R. 23 E. D.L.W.

24.50	Irrigating ditch 4 ft wide, bears N 60°W
27.40	Coulee 80 ft wide 12 ft deep, 300 ft below last sec. cor., bears W; ascend
34.70	Coulee bears N 60°W
40.00	Set a sandstone 18x10x6 ins, 12 ins in the ground, for $\frac{1}{4}$ sec. cor, marked $\frac{1}{4}$ on W face; raised a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base along side. Pits imp.
48.00	Wash in gulch 40 ft deep bears W.
49.00	Enter heavy juniper and cedar timber
50.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 24x9x6 ins. in a mound of stone 1 $\frac{1}{2}$ ft high 2 ft base for cor to secs. 12, 11 and 12, marked with 5 notches on S, and 1 notch on E edge from which
	A juniper tree 8 ins. in diam. bears N 10°E 58 ft dist. marked 926 A.R. 23 E D 1 B. P.
	A cedar tree 14 ins. in diam bears N 41°E 56 ft dist. marked 926 A.R. 23 E D 12 B. P.
	A cedar tree 10 ins. in diam bears S 30°W 13 ft dist. marked 926 A.R. 23 E D 11 B. P.
	A juniper tree 7 ins. in diam bears N 69°W 25 ft dist. marked 926 A.R. 23 E D 2 B. P.
	Lands mountainous; soil sandy and stony 3 rd and 4 th rate.
	Heavy juniper and cedar timber very dense oak undergrowth on 80.00 chs.

W 89°58' E on a random line bet secs 1 and 12
 Va 14°42' E

40.00	Set a temporary $\frac{1}{4}$ sec. cor.
79.97	Intersect the Colo Guide Meridian 10 ft N of cor to secs 1, 6, 7 and 12
	Thence I run, N 89°58' W on a true line bet secs. 1 and 12
	Va 14°42' E

Descend gradually through dense oak undergrowth

21.00	Head of canon; thence along S side of canon bearing W.
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Subdivision of 9260. R 23 E. S. L. M.

39.98	Set a sandstone 16x5x4 ins, 11 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; dug pit 18x18x12 ins E and W of stone, 5 $\frac{1}{2}$ ft dist and raised a mound of earth $1\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base alongside
59.00	Leave undergrowth; enter heavy piñon and cedar timber
76.00	Road from Little Castle Valley to mouth, bears N.W. and S.E.. Leave carriou
79.97	The cor to secs 1, 2, 11 and 12. Land mountainous; soil stony & ^{3rd} rate. Heavy piñon and cedar timber or dense oak underbrush on an impassable cliff prevents me from continuing the survey further. <i>Sept 6th 1894</i>
I begin at the cor to secs 14, 15, 22 and 23 Thence I run N $89^{\circ}55'W$ on a true line bet secs. 15 and 22	
	Va $14045'E$
17.00	Descend along top of ridge, through heavy cedar and piñon timber
- 40.00	Descend along S slope of ridge It is impracticable to set a stone in the ground, therefore set a sandstone 23x10x5 ins in a mound of stone, 1 $\frac{1}{2}$ ft high, 2 ft base for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face, from which A cedar tree 15 ins. in diam bears $N 9^{\circ}W$ 16410 dist; marked $\frac{1}{4} A B 9$. A cedar tree 10 ins. in diam bears $N 7^{\circ}E$ 16610 dist; marked $\frac{1}{4} A B 9$. The rim of the mesa which it is impossible to descend is about 1500 chs. W, therefore discontinue the line at the $\frac{1}{4}$ sec. cor. The $\frac{1}{4}$ sec. cor. is 100 ft below the last sec cor. Land mountainous; soil stony, $\frac{4}{4}$ - rate. Heavy cedar and piñon timber on 4000 chs
I return to the cor. to secs 14, 15, 22 and 23. and take the following obs on the sun.	

Subdivision of 926 D.R. 25 E. I.L.M.

at 9:00 A.M. Sept 8th. Lat. $48^{\circ} 32' 36''$

Alt.	Hor. angle right
$36^{\circ} 43'$	$116^{\circ} 01'$
$36^{\circ} 53'$	$116^{\circ} 13'$
$37^{\circ} 00'$	$116^{\circ} 23'$
$37^{\circ} 05'$	$116^{\circ} 30'$
Sum $147^{\circ} 41'$	Sum $46^{\circ} 07'$
Mean $36^{\circ} 55' 15''$	Mean $116^{\circ} 16' 45''$
Ref - $\frac{1'15'}{h = 36^{\circ} 54' 00''}$	

$$\begin{array}{rcl} \text{Ans's decl. Dip 8th (ephem.) } & 5^{\circ} 36' 19.5'' \\ & - 56.51 \times 4 & \underline{3'46''} \\ \text{Decl. Dip 8th 9 A.M.} & 5^{\circ} 32' 33'' \\ P.D. = 90 - 5^{\circ} 32' 33'' & = 84^{\circ} 27' 27'' \\ L, \log. \cos. \text{of} & 36^{\circ} 54' 00'' = 9.902919 \\ L, " " " & 38^{\circ} 32' 06'' = 9.893283 \\ 2A. & 109^{\circ} 54' 03'' 19.796202(a) \\ & \underline{1/2A} 9.898101(b) \end{array}$$

$$\begin{array}{rcl} D, \log. \cos. \text{of} & 79^{\circ} 57' 01'' = 9.241.802 \\ D-P.D. " " & 4^{\circ} 30' 26'' = \underline{9.998655} \\ \text{Sum} & = 19.240457 \\ 1/2 & = 9.620228 \\ \text{but (b)} & \underline{9.898101} \end{array}$$

$$\begin{array}{rcl} 1/2 \log \cos \text{of } 58^{\circ} 10' 16'' & = .9.722127 \\ Z & = 116^{\circ} 20' 32'' \end{array}$$

$$\text{Hor. angle right} = \underline{116^{\circ} 16' 45''}$$

$$Dip = \text{bearing of reflex } N03^{\circ}34'E$$

I turn $03^{\circ}34' W$ and find the magnetic bearing of the true meridian is $N14^{\circ}44'W$ and the mean declination is $14^{\circ}04' E$

Therefore I run, $N0001W$ but, sees 14 and 15
Va $14^{\circ}04' E$

ascend through heavy cedar and pine timber

- | | |
|-------|---|
| 4.00 | Gulch, 40 ft deep, 200 ft wide, bears W |
| 10.00 | Top of hill, descended W slope |
| 15.00 | Leave timber, enter dense artemesia undergrowth |
| 28.50 | Stock's tent bears S. 000 chs W |
| 30.40 | Coule 150 ft below top of hill, bears W |

Subdivision of T. 26 S. R. 23 E. D. S. M.

	travel over nearly level ground
35.15	Fence bears $05^{\circ} W$ and N
36.38	Fence bears $080^{\circ} E$
37.95	26. Days cabin bears $086^{\circ} 45' E$
40.00	Set a granite stone $10 \times 11 \times 6$ ins. 10 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits $18 \times 18 \times 12$ ins N and W of stone $5\frac{1}{2}$ ft dist., and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside
45.00	Couler 20 ft wide & ft deep bears $060^{\circ} W$; ascend.
50.00	Enter heavy pinyon and cedar timber Days cabin bears $057^{\circ} 30' E$
54.50	Leave timber; enter dense artemesia undergrowth
55.00	Ridge 50 ft high bears $0 W$.
65.00	Foot of hill
80.00	Set a sandstone $20 \times 12 \times 4$ ins, 15 ins in the ground, for cor to secs. 10, 11, 14 and 15 marked with 4 notches on N. and 2 notches on E edge; dug pits $18 \times 18 \times 12$ ins in each sec. $5\frac{1}{2}$ ft dist. and raised a mound of earth, 2 ft high $4\frac{1}{2}$ ft base alongside. Sand mountainous and level; soil stony 4 th rate and sandy loam, 2 nd rate. Heavy cedar and pinyon timber or dense artemesia undergrowth on 80,000 chs.
	$089055' W$ on a true line bet. secs. 10 and 15 $014041' E$
	Over nearly level ground through dense artemesia undergrowth
8000	Set a sandstone, $20 \times 12 \times 6$ ins, 15 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W face; dug pits $18 \times 18 \times 12$ ins E and W of stone, $5\frac{1}{2}$ ft dist., and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside
6700	Enter heavy cedar and pinyon timber, have undergrowth.
8000	Set a sandstone, $24 \times 6 \times 6$ ins, 18 ins in the

Subdivision of 926 S. R 23 E. D.S.W.

ground, for cor to secs. 9, 10, 15 and 16, marked with 4 notches on S, and 3 notches on E edge from which

A cedar tree, 10 ins in diam. bears N 68° E.

32 lodo dist., marked 926 S. R 23 E 010 B.G.

A pinon tree, 7 ins in diam. bears N 42° E

25 lodo dist., marked 926 S. R 23 E 015 B.G.

A cedar tree 8 ins. in diam bears S 7° W

29 lodo dist., marked 926 S. R 23 E 016 B.G.

A pinon tree 8 ins in diam bears N 33½° W

34 lodo dist., marked 926 S. R 23 E 017 B.G.

Sand broken; soil sandy loam and
stony, 2nd and 3rd rate.

Heavy cedar and pinon timber on dense
scrub in undergrowth on 80,000 ft.

In parallel differences are from east along the valley D and W

N 0° 02' W lat. 21 o.s. 4 and 10

" N 14° 38' E

Descend grades a bit through heavy cedar
and pinon timber.

Gulch soft deep bears W.

Gulch 40 ft deep bears S.W.

Det a sandstone 20x10x3 ins, 18 ins in the
ground for 3/4 sec cor, marked 1/4 on W
face, from which

A cedar tree 14 ins in diam bears N 85° E

38 lodo dist., marked 1/4 S. B.G.

A cedar tree 7 ins in diam. bears N 64½° W

37 lodo dist., marked 1/4 S. B.G.

Wash in gulch, 30 ft deep, bears N 60° W.

Det a sandstone 18x10x6 ins, 12 ins in the
ground for cor to secs. 3, 4, 9 and 10,
marked, with 5 notches on S,

and 3 notches on E edge, raised a
mound of stone 1½ ft high 2 ft base
along side. Pilis nipp.

Given in sec. cor. A pinon tree 6 ins in
diam bears N 79° E 89 lodo dist., marked
926 S. R 23 E 010 B.G. No other tree in
limit.

Sand broken; soil stony 4th rate.

Subdivision of T. 26 S. R. 23 E. D. S. M.

Heavy cedar and timber, some of which is fire killed, on 80.00 chs.

It is impossible to run the lines from this corner either N. E. or W. on account of the perpendicular walls of a deep canon or gorge which intersects all of these lines forming an impassable barrier and the land is absolutely worthless for agricultural purposes.

From the cor. to secs. 10, 11, 14 and 15 I run.
 $N 0^{\circ} 0' W$ bet. secs. 10 and 11

$N 14^{\circ} 40' E$

Over nearly level ground, through dense artemesia undergrowth.

- 40.00 J. Burkhader's cabin bears $N 52^{\circ} 30' E$
 Set a sandstone 17x12x3 ins, 11 ins in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4} 40 W$.
 Face; dug pit 18x18x12 ins, N end of stone,
 5 $\frac{1}{2}$ ft dist. and raised a mound of earth
 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base alongside.
 From $\frac{1}{4}$ sec. cor., J. Burkhader's cabin
 bears $N 31^{\circ} 18' E$
- 41.00 Enter heavy scrub cedar and piñon
 timber
- 45.00 Wash in bottom of gorge 80 ft deep, 400 ft wide
 bears $N 60^{\circ} W$.
- 72.00 Ridge 150 ft above $\frac{1}{4}$ sec. cor. bears $N 80^{\circ} E$
- 79.50 Wash in gulch 100 ft deep bears W.
- 80.06 Marked a cross at exact cor. point with
 5 notches on N and 2 notches on E side on a
 sandstone ledge, for cor. to secs. 2, 3, 10,
 and 11, from which
- A piñon tree 12 ins in diam. bears $N 77\frac{1}{2}^{\circ} E$
 29 lfts dist, marked T 26 S. R. 23 E. 02 B. T.
- A piñon tree 8 ins in diam. bears $N 39^{\circ} E$
 30 lfts dist, marked T 26 S. R. 23 E. 01 B. T.
- A piñon tree, 20 ins. in diam. bears $N 48^{\circ} W$
 38 lfts dist, marked T 26 S. R. 23 E. 01 B. T.
- A piñon tree 20 ins in diam., bears $N 20^{\circ} W$

Subdivision of 926 S. R. 23 E. D. C. M.

12 2 lks dist. marked 926 S. R. 23 E. D. & B. G.
 Land, 0% level, N/S mountainous; soil, 0%
 sandy loam 2nd rate, N/S stony 4th rate.
 Heavy cedar and juniper timber or dense
 artemesia undergrowth on 80.00 chs.

Sept. 8th 1894

	From the cor. to secs. 10, 11, 14 and 15 1 mi., $N 89^{\circ} 56' E$ on a random line bet. secs 11 and 14 $Va 140^{\circ} 45' E$ $Va 140^{\circ} 45' E$
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.07	Intersect cor. to secs. 11, 12, 13 and 14 Thence 1 mi., $N 89^{\circ} 56' W$, on a true line bet. secs 11 and 14 $Va 140^{\circ} 45' E$
24.00	Through h dense oak undergrowth; descend along N slope of hill Enter heavy cedar and juniper timber; leave undergrowth.
27.50	Cross over to W slope of hill
40.03	It is impracticable to set a stone in the ground, therefore set a trachyte stone 20x7x6 ins in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face, from which a juniper tree 7 ins. in diam. bears $N 21 E$ 52 lks dist, marked $\frac{1}{4}$ D. B. G. A juniper tree 10 ins. in diam bears $N 16^{\circ} E$ 44 lks dist, marked $\frac{1}{4}$ D. B. G.
61.00	Foot of hill 200 ft below 27.50 chs.; leave cedar and juniper timber and enter dense artemesia undergrowth.
64.70	Road bears W. E. and S.
64.80	Irrigating ditch $\frac{1}{4}$ lk wide, bears S.
80.07	The cor to secs. 10, 11, 14 and 15. Land mountainous and level; soil stony 4^{th} rate and sandy loam 2 nd rate. Heavy cedar and juniper timber or dense oak or artemesia undergrowth on 80.07 chs.
	From the cor. to secs. 9, 10, 10 and 11 1 mi.,

Subdivision of 926 S. R. & S E. I. L. M.

	S. 89°56' E, on a random line bet secs 2 and 11 Va 14°44' E
40.00	Set a temporary $\frac{1}{4}$ sec. cor.
80.06	Intersect N and S line & lots 5 & 10 cor to secs. 1, 2, 11 and 12. Hence draw, N 89°58' W, on a true line bet. secs. 2 and 11
	Va 14°44' E
	descend through heavy cedar and pinon timber
100.	Edge of canon thence along S. side of same. bears S.W.
2700	Head of gulch bears S.W.
36.00	Ledge of rock 60 ft high; ascend E slope of hill.
40.03	It is impracticable to set a stone in the ground, I therefore set a sandstone 14x12x6 ins in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ sec. cor. marshaled $\frac{1}{4}$ on N face. Pits up. No bearing trees available. The timber near this cor. have all been fire killed.
45.00	Ridge 150 ft high bears N 70° W; thence along E slope of hill.
74.20 78.00 80.06	Rim of canon 100 ft deep; descend to wash in canon bears S.W. The cor to secs. 2, 3, 10 and 11. Land, mountainous; soil stony, 4 th rate. Heavy cedar and pinon timber on 80.00 chs.
	Sept 9 th 1894

General Description of T. 26 D. R. 23 E. S. L. M.

This township consists of a high mesa or plateau adjoining the La Sal mountains on the West.

The canon of Mill creek which is about 1000 ft deep, follows approximately the 0 edge of the Township from its N.E. cor. for a distance of 3 miles.

The unsurveyed portion is extremely rough, consisting almost entirely of bare sandstone ledges without any vegetation. There are several small springs of good water along the E edge of this township sufficient for the needs of stock grazing on the land. The abundant undergrowth on this land affords abundant feed for stock during the summer.

In secs. 10, 11, 14 and 15 there is some land that will produce fair crops of grain without irrigation.

The cedar and piñon timber in this township is of a fair quality and growth. The mean declination of the plot is $14^{\circ} 42' E$, the average of 3 observations.

There are three settlers in this township.

J. Burkholder in sec 11, has a good log house, 1 mile of fence and a small ditch. He cultivates 20 acres of land.

H. Day has improvements of little character and amount in sec 14.

D. Stocks has a temporary shelter and a corral in sec. 15. He cultivates about 5 acres.

Clans Johnson, applicant for this survey has left the vicinity.

Frank E. Baxter
U. S. Dep. Surveyor.

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List of Names.

Final Oath of Allegiance:

We hereby certify that we assisted , U. S. Deputy Surveyor, in surveying all

..... Meridian, as are represented in the
aforesaid field notes as having been surveyed by him and under his direction; and that said survey has been in all
parts, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
according to the instructions furnished by the U. S. Surveyor General for

scribed and sworn to before me this }
day of , 18



5th Dec.

Final Oath of U. S. Deputy Surveyor.

I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, the surveying manual, and the laws of the United States, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Subscribed and sworn to before me this _____ }
day of _____, 18_____. }

U. S. Deputy Surveyor.



Approval.

Office of the U. S. Surveyor General,

Salt Lake City June 6, 1895

The foregoing field notes of the survey of *The Thirteenth Range of Township
26 South Range 23 East, of the Salt Lake 13 meridians*

executed by *Frank E. Barker*
under his Contract No. 196, dated January 10th, 1894, having been critically
examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are
hereby approved.

George W. Snow

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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W.F.H.
J.G.J.B.

R.G.J.B.

FIELD NOTES

OF THE SURVEY OF

The West Boundary of Township
26 South, Range 23 East

Of the Salt Lake Meridian,

Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

Under his Contract No. 196, dated January 18th, 1894.

Survey commenced September 10th, 1894.

Survey completed September 10th, 1894.

Names and Duties of Assistants.

Damase Morris Chairman
Wallace Watson " "
Edward Redmond Axeman
Sowell Wells Flagman

INDEX DIAGRAM.

Township 26 S., Range 23 E.

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Meanders Page.....

Preliminary Oaths of Assistants.

We,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the _____

_____, *Chainman.*

_____, *Chainman.*

_____, *Chainman.*

_____, *Chainman.*

Subscribed and sworn to before me this _____ }
day of _____, 18 . }

We,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the _____

Subscribed and sworn to before me this _____, *Axeman.*
day of _____, 18 . } _____, *Axeman.*

West Boundary of T. 26 S. R. 23 E. D. L. M.

Survey commenced Sept 10th 1894
From the cor to Tps 26 and 27 D. R. 22 and
23 E from W lat. sec 31 and 36

Va 140 48' E

Over nearly level ground through dense artemesia undergrowth.

10.00 Wash in gulch 20 ft deep bears from
S. 0° E to W, ascend

30.00 Wash in gulch 40 ft deep bears N 60° W
Set a granite stone 10x9x5 ins, 10 ins in
the ground for 1/4 sec. cor, marshled
1/4 on W face; raised a mound of
stone 1 1/2 ft high 2 ft base alongside.
Land rolling, soil sandy & sparse
No timber

Dense artemesia undergrowth on
40.00 chs.

Sept 10th 1894

There is an impassable cliff about 15
chs. N of this cor. which compells me
to abandon the line here.

Frank E. Baxter
U. S. Dep Surveyor

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List of Names.

A list of the names of the individuals employed by
....., U. S. Deputy Surveyor, to assist in running, measuring, and
ing the lines and corners described in the foregoing field notes of the survey of the

..... Meridian, in , showing the respective capacities in which they acted:

Final Oath of Assistant:

We hereby certify that we assisted
....., U. S. Deputy Surveyor, in surveying all
parts or portions of the.....

..... Meridian,, as are represented in the
regoing field notes as having been surveyed by him and under his direction; and that said survey has been in all
aspects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
according to the instructions furnished by the U. S. Surveyor General for

scribed and sworn to before me this _____
day of _____, 18_____. } }



586 B
I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, the surveying manual, and the laws of the United States, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Subscribed and sworn to before me this _____
day of _____, 18_____. }
} _____

U. S. Deputy Surveyor.



Approval.

Office of the U. S. Surveyor General,

Salt Lake City, Utah, June 6, 1895.

The foregoing field notes of the survey of *The West Boundary of Township
26 South Range 23 East of the Salt Lake Base
& Meridian*

executed by *Frank E. Baxter*
under his Contract No. *196*, dated *January 18*, 1894, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Snout
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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FIELD NOTES

OF THE SURVEY OF

South Boundary of Township 26 South
Randall 22 East

Of the Salt Lake Meridian,

Territory of Utah

AS SURVEYED BY

Frank E. Baxter, U. S. Deputy Surveyor,

Under his Contract No. 196, dated January 18th, 1894.

Survey commenced September 11th, 1894.

Survey completed September 11th, 1894.

(8070-2, '00.) 6-151

L 1 22 56
11 64
T. 40 00

Names and Duties of Assistants.

<u>Daniel Morris</u>	<u>Chairman</u>
<u>Wallace Watson</u>	<u>Chairman</u>
<u>Edward Redmond</u>	<u>Chairman</u>
<u>Lovell Wells</u>	<u>Flagman</u>

Volume

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INDEX DIAGRAM.

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Meanders Page.....

Preliminary Oaths of Assistants.

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the

, Chainman.

, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this _____
day of _____, 18 . }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Subscribed and sworn to before me this _____
day of _____, 18 . } , Axeman.
 , Axeman.

South Boundary of T. 26 S. R. 22 E. O. S. W.

Survey commenced Sept 11th 1894
Before commencing work on this
township I put my transit in ad-
justment and correct the length of
my chain.

Observation on sun at the cor to 9 ps.
26 and 27 D. Ro 22 and 23 E in Lat $38^{\circ}30'N$
long. Sept 11th 7:30 A.M.

Alt.	Hour angle right.
$19^{\circ}46'$	$100^{\circ}24'$
$19^{\circ}54'$	$100^{\circ}31'$
$19^{\circ}59'$	$100^{\circ}36'$
$\underline{20^{\circ}06'}$	$\underline{100^{\circ}42'}$
sun $79^{\circ}45'$	$402^{\circ}13'$
mean $19^{\circ}56'15''$	$100^{\circ}38\frac{1}{4}'$
Ref - $\underline{2'35''}$	
$h = 19^{\circ}53'40''$	

$$\text{Ans decl Sept 11 (ephem)} + 4^{\circ}28'07.5'' \\ - 57\frac{1}{3} \times 2.5 \quad 2'22.8''$$

$$\text{Decl } 7:30 \text{ A.M. Sept 11} \quad 4^{\circ}25'45''$$

$$PD. 90^{\circ} - 4025'45'' = 85^{\circ}34'15''$$

$$h, \log. \cos \alpha \quad 19^{\circ}53'40'' \quad 9.973277 \checkmark$$

$$L, " " \quad \underline{38^{\circ}30'00''} \quad \underline{9.893544} \checkmark$$

$$Z \quad 143^{\circ}57'55''.79.866821 \quad (a) \\ Z = 9.933410 \checkmark (b)$$

$$\theta \quad \log \cos \alpha, \text{ day,} \quad 71^{\circ}59'00'' \quad 9.490371$$

$$\theta - PD \quad " " \quad \underline{13^{\circ}35'15''} \quad \underline{9.987671} \checkmark \\ Z = 19.478042$$

$$Y_2 = 9.739021 \checkmark$$

$$\text{Sub (b)} \quad \underline{9.933410} \checkmark$$

$$Y_2 Z, \log. \cos. \alpha 50^{\circ}16'14'' \checkmark = 9.805611 \checkmark$$

$$Z = 100^{\circ}32'28''$$

$$\text{Hour angle right,} \quad \underline{100^{\circ}33'15''}$$

Diff. in bearing of reference line N $47''W$

I turn off $47''E$ and find the magnetic
bearing of the true meridian to be
N $14^{\circ}48'W$ and the mean declination is
 $14^{\circ}45'E$.

Hence I run W on a true line but sees.
1 and 36

5
South Boundary of T. 26 S. R. 22 E. I. S. M.

	Va $14^{\circ}48' E$
	Over nearly level ground, through dense artemesia undergrowth
40.00	Set a trachite stone 21x9x5 ins., 16 ins in the ground for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on N face; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp.
44.46	Fence bears N 50° E, 1 ch.; enter J. Blatch's field. Leave undergrowth
50.50	J. Blatch's house 125 lrs 0 of line
51.30	Fence bears N $10^{\circ} E$ and S $10^{\circ} W$ leave field.
51.60	M. Higgins house bears N $75^{\circ} 30' W$; road to Moab bears N and S.
56.30	Road bears N.W. Enter dense artemesia undergrowth.
80.00	M. Higgins house bears N $67^{\circ} E$.
	Set a sandstone, 16x9x8 ins., 10 ins in the ground for cor to secs. 1, 2, 35 and 36, marked with 1 notch on E and 5 notches on W edge; dug pits $18 \times 18 \times 12$ ins. in each sec. $5\frac{1}{2}$ ft dist. and raised a mound of earth 2 ft high, $4\frac{1}{2}$ ft base alongside. Land nearly level; soil sandy loam. good rate.
	No timber.
	Dense artemesia undergrowth on 68.36 chs.

W on a tree line bet secs. 2 and 35

Va $14^{\circ}48' E$.

	Through dense artemesia undergrowth irrigating ditch bears N $20^{\circ} W$.
11.20	Pack creek, 30 ft wide, 15 ft deep bears N $30^{\circ} W$ (dry)
12.40	S.W cor M. Higgins's fence is N 100 lrs dist.
13.00	Set a sandstone 21x10x6 ins 16 ins in the ground for $\frac{1}{4}$ sec cor., marked $\frac{1}{4}$ on N face; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp.
40.00	At the base of the cliff forming the S.W. boundary of Pack creek valley is about 10 chs W which makes it impossible

599

South Boundary of T. 26 N. R. 22 E. A. S. M.

to run the line further W.

Land nearly level; soil sandy, 2nd rate.

No timber

Dense artemesia under growth on
40.00 chs.

Sept. 17th 1894

For general description, see notes of
subdivision of this township.

Frank E. Baxter

U. S. Dep Surveyor

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List of Names.

A list of the names of the individuals employed by
....., U. S. Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of the

..... Meridian, in, showing
the respective capacities in which they acted :

Final Oath of Assistants:

We hereby certify that we assisted
....., U. S. Deputy Surveyor, in surveying all
those parts or portions of the

..... Meridian, as are represented in the
foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all
aspects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
according to the instructions furnished by the U. S. Surveyor General for

Subscribed and sworn to before me this }
day of , 18



600 *Blair*
Final Oath of U. S. Deputy Surveyor.

I, _____, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, U. S. Surveyor General for _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for _____, the surveying manual, and the laws of the United States, surveyed all those parts or portions of _____

Meridian, in the _____, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

U. S. Deputy Surveyor.

Subscribed and sworn to before me this _____ }
day of _____, 18_____. }



Approval.

Office of the U. S. Surveyor General,

Salt Lake City Utah June 16, 1895

The foregoing field notes of the survey of *The South Boundary of
Township 26 South Range 22 East of the
Salt Lake Base & Meridian;*

executed by
Frank D. Barker
under his Contract No. 196, dated January 18th, 1894 having been critically
examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, hereby approved.

George W. Snow

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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FIELD NOTES

OF THE SURVEY OF

Sekidiniasins

of

Township 26 South Range 22 East

Of the Salt Lake Base Meridian,

Utah Territory

AS SURVEYED BY

*Frank E. Baxter, U. S. Deputy Surveyor,*Under his Contract No. 196, dated January 18th, 1894.Survey commenced September 11th, 1894Survey completed on 13th, 1894

(U. S. G. S.) 623

4 14.75-69-

2 1 62-69-

15 45-38-

Names and Duties of Assistants.

Samuel Morris

Ch. - s. i. .

Wallace Staton

11

Edward J. Edmund

Axemann

Powell Wells

Flagm.-

INDEX DIAGRAM.

Township 26 North, Range 22 East

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16	15	7	5	5	24
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31	32	33	34	4	35
			3	2	2
					2
					36

Meanders Page.....

Preliminary Oaths of Assistants.

Samuel L. Clark

WE,

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the _____

_____, Chainman.

_____, Chainman.

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____ }
day of _____, 18 }

WE,

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the _____

Subscribed and sworn to before me this _____, _____, Axeman.
day of _____, 18 }, _____, Axeman.

Subdivision of 926 S. R. 22 E. I. L. M.

Survey commenced Sept 11th 1894
 I begin at the N. tidy of the township at
 the cor. to secs. 1, 2, 35 and 36.
 Thence I run N. 0° 1' W bet. secs. 35 and 36
 Va. 140 44' E

- Through dense artemesia undergrowth
 Fence bears E and W; leave undergrowth.
 10.30 Irrigating ditch bears E and W.
 24.80 Irrigating ditch 5 ft wide 1 ft deep
 bears E and W.
 30.48 Fence bears W and N 30° E.
 30.73 A Summerwillis house bears N 42° W.
 O'Newell's house bears N 26° 54' W.
 H. Johnson's house bears N 44° 16' W.
 35.10 Road bears N 60° E and N 80° W.
 38.90 Road bears N. W.
 40.00 Set a trachite stone 10x12x3 ins., 10 ins
 in the ground, for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on W face; raised a mound of earth
 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base along side.
 A Summerwillis house bears N 56° 40' W.
 O'Newell's house bears N 38° 50' W
 H. Johnson's house bears N 64° W.
 40.30 Irrigating ditch bears N. W.
 41.70 W. fork of road to Moab bears N. W.
 Enter dense artemesia undergrowth
 E fork of road to Moab bears N. W.
 This point is at junction of wood
 road bearing to E.
 75.70 Culee 30 ft wide 8 ft deep bears N 23° W
 90.00 Set a sandstone 21x10x6 ins., 15 ins in the
 ground, for cor. to secs. 25, 26, 35 and 36
 marked with 1 notch on S and 1 notch
 on E edge; raised a mound of stone,
 1 $\frac{1}{2}$ ft high 2 ft base along side.
 Pits imp.
 Land, nearly level; Soil sandy loam 1 $\frac{1}{2}$
 and 2 $\frac{1}{2}$ ft rate.
 No timber
 Dense artemesia undergrowth on 41.94 chs.

Subdivision of T 26 S. R 22 E. D. L. M.

From cor to secs 25, 30, 31 & 36 on S 2° E; nor rung at 8 pm
E on a true line bet. secs. 25 and 36.

Va 14° 44' E

Ascend gradually through dense artemesia undergrowth.

10.00 Foot of hill; ascend stony slope. Leave undergrowth.

33.30 Wood road bears N and S.

34.50 Top of hill 300 ft above cor. bears N.W.
and S.E.

40.00 Set a sandstone 14x10x6 ins 9 ins in the
ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on
W face; raised a mound of stone $1\frac{1}{2}$
ft high, 2 ft base alongside. Pits imp.
Land mountainous and level; soil
stony and sandy 3rd and 4th rate.
A few cedar trees along line.

Dense artemesia undergrowth on
30.00 chs.

Mountainous on 30.00 chs.

Returning to the cor. to secs. 25, 26, 35
and 36, I run N. 0° 0' W bet. secs. 25 and 26.

Va 14° 44' E.

Through dense artemesia undergrowth

15.00 Foot of mountain; ascend. Leave under-
growth.

38.00 Top of hill 400 ft above last sec. cor.

40.00 It is impracticable to set a stone in
the ground, I therefore set a sandstone
17x12x8 ins in a mound of stone
 $1\frac{1}{2}$ ft high, 2 ft base for $\frac{1}{4}$ sec. cor.,
marked $\frac{1}{4}$ on W face. Pits imp.
Inexplicable cliffy prevents me from running this line!
Land mountainous and rolling; soil
sandy and stony 3rd and 4th rate.
No timber.

Dense artemesia undergrowth on 15.00 chs.
Mountainous on 25.00 chs.

The w. p. of the S. bdy of sec 35 being unsurveyed I run
from the cor to secs. 25, 26, 35 and 36.

W on a true line bet. secs. 26 and 35

Va 14° 42' E

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Subdivision of T 26 A. R 22 E. D. S. M.

	Over nearly level ground, through dense artemesia undergrowth.
2.00	Couler 40 ft wide 5 ft deep bears N 30°W
10.50	Road to moat bears N 30°W
16.49	Fence bears N 20°W; N.E. cor. of fence 5.00 chs right of line.
24.00	Enter cultivated land; leave undergrowth
33.00	Irrigating ditch bears N 20°W
39.00	Leave cultivated land. Enter dense artemesia undergrowth.
40.00	Set a trachite stone 16x10x5 ins. 11 ins in the ground for 1/4 acre cor., marshed 1/4 on N. face; dug pits 18x18x12 ins E and W of stone 5 1/2 ft dirt. and raised a mound of earth 1 1/2 ft high, 3 1/2 ft base alongside.
41.10	Pack creek (dry) 12 ft wide, 10 ft deep, bears from S.E. to N.W.
58.40	Couler N 30°W.
80.00	Set a sandstone 16x10x8 ins 11 ins in the ground for the cor to secs. 26, 27, 34 and 35 marshed with 1 notch on S. and 2 notches on E edge; raised a mound of stone, 1 1/2 ft high, 2 ft base alongside. Pits imp.
65. ¹⁰ 15. ⁵⁰	The magnetic declination has here increased to 14° 54' E by local attraction.
	Land, nearly level; soil sandy loam 2 nd rate.
	No timber.
65.00	Dense artemesia undergrowth on
	The S. boundary of sec 34 being unanswered I run W on a true line bet. secs 27 and 34
	to 14° 54' E
26.00	Through dense artemesia undergrowth
- 40.00	Foot of hill bears N 20°W; ascend steep slope. Leave undergrowth
	It is impracticable to set a stone in the ground, & therefore set a sandstone.

Subdivision of 926 S. R. 22 E. D. L. M.

20x15x8 ins in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base, for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N face. Pits imp.

It is impossible to continue line W on account of impassable cliffs forming the N.W. boundary of the valley. Land mountainous and rolling; soil sandy and stony 3rd and 4th rate. No timber.

Dense artemesia undergrowth on 26.000 chs.

Mountainous on 14.000 chs.

From the cor. to secs. 26, 27, 34 and 35

I run $10^{\circ}0' E$ bet. secs. 34 and 35

Va $14^{\circ}54'E$

Through dense artemesia undergrowth over nearly level ground.

4.000 Set a sandstone 20x11x6 ins. 15 ins in the ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on W face; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base along side.

Pits imp. This cor is at the base of an impassable cliff therefore discontinuous line here. Same level, soil sandy 3rd rate.

No timber.

Dense artemesia undergrowth on 4.000 chs.

Returning to cor. to secs. 26, 27, 34 and 35

I run $11^{\circ}0' W$ bet. secs. 26 and 27

Va $14^{\circ}54'E$

Through dense artemesia undergrowth over nearly level ground.

11.000 Set a sandstone 16x9x8 ins. 11 ins in the ground for $\frac{1}{4}$ acre cor., marked $\frac{1}{4}$ on W face; dug pit 18x18x12 ins. 11 and 1 of stone, $5\frac{1}{2}$ ft dist. and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base along side.

11.900 Road to West bears N $35^{\circ}W$.

Subdivision of T 26 D. R 22 E S. L. M.

50.20 Coule bears N 35° W.
 68.40 Pack crust (dry) 40 ft wide, 6 ft deep bears
 N 20° W.
 - 80.00 Set a sandstone 17 x 7 x 5 ins., 11 ins in
 the ground, for cor. to secs. 22, 23, 26
 and 27, marked with 2 notches on
 N, and 2 notches on Edge; dug
 pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft
 dist., and raised a mound of earth
 2 ft high, 4 1/2 ft base alongside.
 Land nearly level; soil sandy 2nd
 rate.

No timber.

Dense artemesia undergrowth on
 80.00 chs.

~~By cor. to secs. 23, 24, 25 and 26 not being set, I run
 E on a true line bet secs. 23 and 26~~

Va 14054' E.

Gradually ascending through dense
 artemesia undergrowth.

- 40.00 Set a sandstone 20 x 12 x 5 ins., 15 ins in
 the ground for 1/4 sec. cor., marked
 1/4 on N face; raised a mound of
 stone 1 1/2 ft high, 2 ft base alongside.
 Pits imp. This cor. is at the base of an
 impassable cliff therefore discontinuous line here.
 Land slightly rolling; soil sandy
 3rd rate.

No timber

Dense artemesia undergrowth on
 40.00 chs.

From the cor. to secs. 22, 23, 26 and 27 I run.
 N 0° 0' W bet secs. 22 and 23.

Va 14054' E

Through to dense artemesia undergrowth

16.56 C. Boen's fence bears E and W.

40.00 Set a sandstone 25 x 12 x 3 ins. 19 ins
 in the ground for 1/4 sec. cor., marked
 1/4 on N face; dug pits 18 x 18 x 12 ins
 N and S of stone, 5 1/2 ft dist and raised

1614
Subdivision of T. 26 S. R. 22 E. D. S. NW

	a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside.
54.00	Couler bears W.
- 80.00	It is impracticable to set a stone in the ground, I therefore set a sandstone $28 \times 14 \times 6$ ins in a mound of stone $1\frac{1}{2}$ ft high, 2 ft base. for the cor. to secos. 14, 15, 22 and 23, marked with 3 notches on S, and 2 notches on E edge. Pits imp.
	Land slightly rolling, gradually ascending to N and E. Soil, sandy, $2\frac{1}{2}$ and $3\frac{1}{2}$ rate.
	No timber.
80.00 chs.	Dense artemesia undergrowth on

Sept 11th 1894

Obs. on Sun Sept 12th, 7:30 A.M. at the cor. to secos. 22, 23, 26 and 27 in Lat $38^{\circ}31'44''$ N.

Alt.	Hor angle right.
$19^{\circ}14'$	$100^{\circ}30'$
$19^{\circ}20'$	$100^{\circ}35'$
$19^{\circ}24'$	$100^{\circ}39'$
$19^{\circ}39'$	$100^{\circ}52'$
Sum $77^{\circ}37'$	Sum $402^{\circ}36'$
Mean $19^{\circ}24'15''$	Mean $100^{\circ}39'$
Ref alt. $240''$	
$h = 19^{\circ}21'35''$	
Decl. Sep 12 th 1894 (ephem) $+4^{\circ}05'14''$	
Sub. $57''31 \times 2.5$	$2'20''$
Decl. 7:30 A.M. Sep 12 th	$4^{\circ}02'51''$
P.D. = $90 - 4^{\circ}02'51''$	$85^{\circ}57'09''$
h , log. cos. of	$19^{\circ}21'35'' = 9.974722$
L. " "	$38^{\circ}31'44'' = 9.893370$
20	$143^{\circ}50'28''$
	19.868092 (a)
	$\% (a) = 9.934046 (t)$
0. log cos of	$71^{\circ}55'14'' = 9.491832$
P-D, " "	$14^{\circ}01'55'' = 9.986844$
	Sum 19.478676

Subdivision of T 26 S. R 22 E. N.D.W.

$$\text{Pr (of above)} = 9.739338$$

$$\text{Sub (b)} = \underline{\underline{9.934046}}$$

$$\text{Pr Z. log. cos. of } 50^{\circ}18'20'' = 9.805292$$

$$Z = 100^{\circ}36'40''$$

$$\text{True angle right} = \underline{\underline{100^{\circ}39'00''}}$$

Dir is bearing of reference line N 2°20' W,
I turn off 2°20' E and find the mag-
netic bearing of the true meridian
is N 14°54' W and the mean declin-
ation is 14°51' E.

~~(The cor. to secs 27, 28, 33 and 34 not being set I run
W on a true line bet. secs. 22 and 27)~~

$$\text{Va } 14^{\circ}54' E$$

Over slightly rolling ground through
dense artemesia undergrowth
7.20 Pack creek 20 ft wide, 5 ft deep (dry)
beams N 20° W.

17.10 Couler bears N 10° W.

23.10 Road to Moab. bears N 30° W.

40.00 Set a sandstone 18x11x8 ins. 12 ins.
in the ground, for 1/4 sec. cor. marked
1/4 on N face, dug pits 18x18x12 ins E and
W of stone, 5 1/2 ft dist. and raised a
mound of earth 1 1/2 ft high, 3 1/2 ft
base alongside.

63.50 Couler bears N.E. ascend gradually to

80.00 Set a sandstone 18x14x6 ins. 12 ins
in the ground, for cor to secs. 21, 22,
27 and 28, marked with 2 notches on
N. and 3 notches on E edge; raised a
mound of stone 1 1/2 ft high, 2 ft base
alongside. Pits imp.

Land, level and rolling; soil sandy
9 m^s and 3 m^w ratio.

No timber.

Dense artemesia undergrowth on 80.00 chs.

N 0°02' W bet. secs. 21 and 22

$$\text{Va } 14^{\circ}53' E$$

Gradually descending through dense
artemesia undergrowth.

Subdivision of T. 26 S. R. 22 E. D. L. M.

40.00	Set a sandstone 20x11x7 ins. 15 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face; dug pits 18x18x12 ins N and S of stone, 5 $\frac{1}{2}$ ft dist., and raised a mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base alongside. C. Boren's house bears N 87°30' E
70.70	Road to Moab bears N 87° W
72.02	C. Boren's house bears N 41°01' E
72.24	Fence bears N 37°15' E. *
74.53	Irrigating ditch bears N. W.
- 80.00	Set a sandstone 17x12x8 ins 11 ins in the ground for cor to secs. 15, 16, 21 and 22, marked with 3 notches on the S, and 3 notches on the E edge; dug pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft dist., and raised a mound of earth 2 ft high, 4 $\frac{1}{2}$ ft base alongside. Sand smooth nearly level; soil, sandy 2 nd and 3 rd rate. No timber. Dense artemesia undergrowth on 80.00 chs.

E on a random line bet. secs. 15 and 22
Va 14°05' E

40.00	Set a temporary $\frac{1}{4}$ sec. cor.
74.98	Intersect N and S line 14 ltrs N of cor to secs. 14, 15, 22 and 23. Hence turn N 89°54' W on a true line bet. secs. 15 and 22
	Va 14°05' E

Gradually descending through dense artemesia undergrowth

39.99	Set a sandstone 17x10x5 ins 11 ins in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face; dug pits 18x18x12 ins E and W of stone, 5 $\frac{1}{2}$ ft dist., and raised a mound of earth 1 $\frac{1}{2}$ ft high, 3 $\frac{1}{2}$ ft base alongside.
55.00	Leave undergrowth.
57.00	Center of bog 200 ft wide bears N. W. and E.

BY DATE SUBJECT *A-236*
CHKD. BY DATE

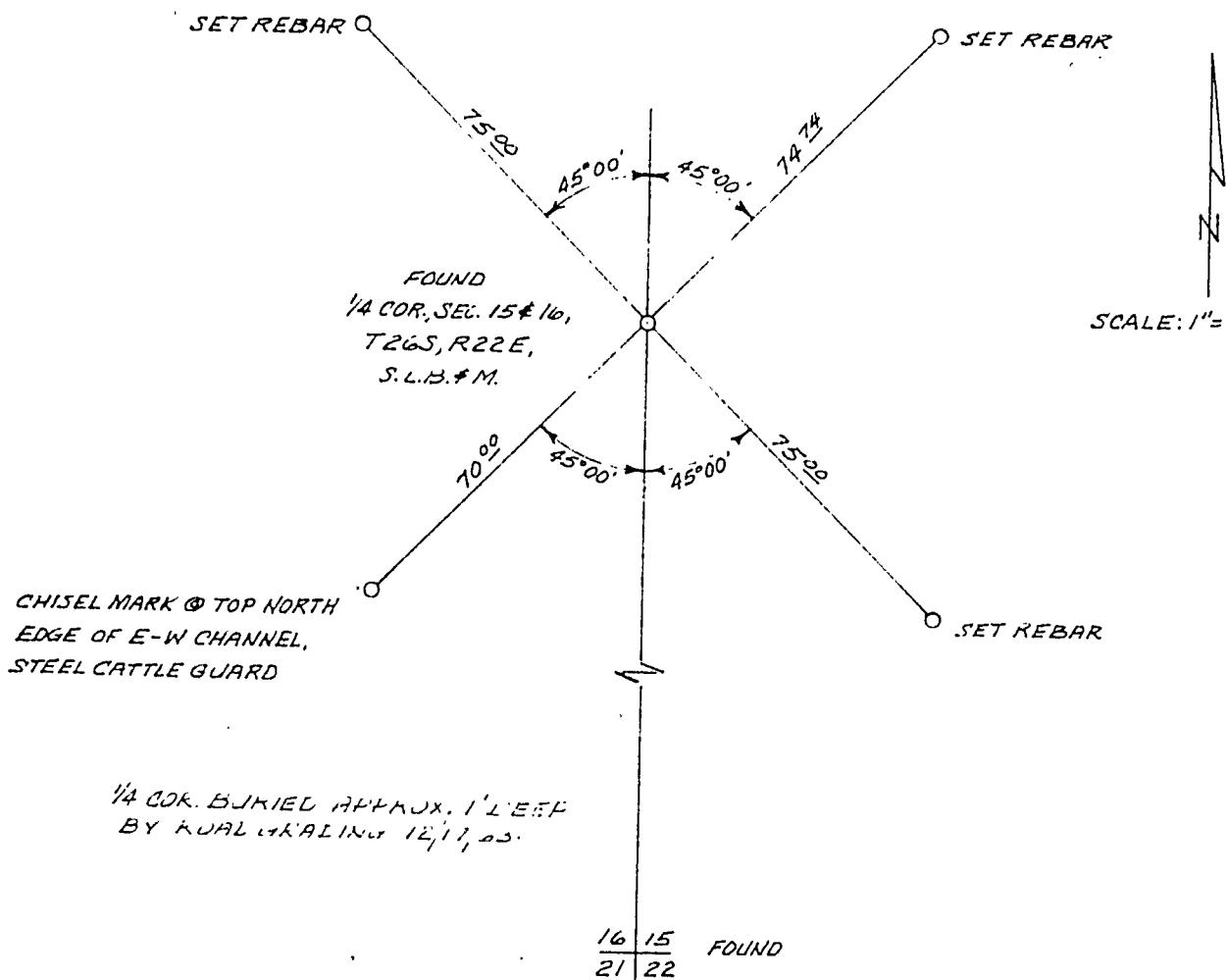
SHEET NO. OF
JOB NO.

(6)

REFERENCE WEST $\frac{1}{4}$ COR., SEC. 15, T26S, R22E, S.L.B.&M.

GRAND COUNTY, UTAH

DECEMBER 11, 1963



John E. Keogh
UTAH REG'D. LAND SURVEYOR
NO 1963

REFERENCE E:9180 12/10/63

Subdivision of T. 26 S. R. 22 E. I. S. M.

6.000	Enter dense oak and artemesia undergrowth.
64.00	Pack creek, stream 8 ft wide 4 in deep, bears N 50° E, thence W.
67.00	Bend in Pack creek bears from N 80° E to N 30° W.
70.00	Pack creek bears from N 60° E to N 30° W.
79.98	From the cor. to secs. 15, 16, 21 and 22. Land, rolling; soil sandy loam 2nd and 3rd rate. No timber. Dense artemesia or oak undergrowth on 74.98 chs.

14.98 15.00	From the cor. to secs. 14, 15, 22 and 23 Land N 0° W bet. secs. 14 and 15 Va 14° 52' E descend through dense artemesia undergrowth
16.00	Leave undergrowth
32.00	Sandstone butte 150 ft high, bears N 20° E and N 20° W
40.00	Marked cross + at exact cor. point with $\frac{1}{4}$ on W of cross on a sandstone ledge for $\frac{1}{4}$ sec. cor., raised a mound of stone 1 $\frac{1}{2}$ ft high, 2 ft base alongside Pits imp. No bearing trees available. A few cedar trees along line. Impassable cliffs prevent my running further N. Land mountainous, solid bedrock and stony 3rd and 4th rate. Mountainous on 40.00 chs.

From the cor. to secs. 15, 16, 21 and 22 I run N 0° 02' W bet. secs. 15 and 16.
Va 14° 51' E

descend through dense oak and artemesia undergrowth.	
11.40	Pack creek, stream 10 ft wide, 3 in deep, bears N. W.
13.17	Gauge bears N 30° E and N 30° W, have undergrowth; enter cultivated land.

Subdivision of T. 26 S. R. 22 E. D. C. M.

22.00	Coule' 30 ft 5 ft deep bears W
27.00	Leave cultivated land; under dense artemesia undergrowth.
28.10	Spring branch, running water 2 ft wide, bears N.W. In all spring of good water 4.00 chs. N.E.
28.95	Hence bears N.E. and S.W.
40.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 20 x 8 x 4 ins in a mound of stone 1 1/2 ft high 2 ft base, for 1/4 acre cor. marked 1/4 on W face. Pits imp.
52.20	Coule' bears W.
69.20	Coule' bears from N to S.W.
74.50	Leave. coule' bears from N 30° W.
80.00	It is impracticable to set a stone in the ground, I therefore set a sandstone 22 x 10 x 8 ins in a mound of stone 1 1/2 ft high, 2 ft base for cor to secs. 9, 10, 15 and 16. marked with 4 notches on N. and 3 notches on E edge. Pits imp. Sand rolling and hilly; soil sandy loam and stony 1st and 4th rates. No timber. dense oak or artemesia undergrowth on 66.17 chs.

The cor to secs 10, 11, 14 and 15 not being set I run 189054' E on a true line bet secs. 10 and 15

189048' E

Ascend through dense artemesia undergrowth

160	Ridge 50 ft above cor bears N 30° E
	Thence ascend over broken ground.
4.60	Coule' 40 ft deep bears S.
10.20	Coule' bears S.W.
- 40.00	Set a sandstone 17 x 8 x 5 ins 12 ins in the ground for 1/4 acre cor. marked 1/4 on N face; dug pits 18 x 18 x 12 ins E and W of stone 5 1/2 ft dist, and raised a mound of earth 1 1/2 ft high

Subdivision of 9 26th R 22 E. C. L. sec.

3 1/2 ft base alongside
 impassable cliffs render further progress in this direction impossible.
 Land rolling; soil sandy and stony, 3rd rate.
 No timber.
 Dense artemesia undergrowth on 5000 acres.
 Sept 12th 1894

I am unable to find the cor to secs 8, 9, 16 + 17; the 1/4 acre cor. bet secs 16 and 17; and the cor to secs 16, 17, 20 and 21 of the old survey.

From the cor to secs 7, 8, 17 and 18 which is a red sandstone 12x12x13 ins set in a mass of stone, marked with 4 notches on S face & 5 notches on E edge I run
 E on a random line bet secs 8 and 17

at $14^{\circ} 54' E$

Find the 1/4 acre cor 5 1/2 miles N of my line.

After diligent search I fail to find the sec. cor.

I return to the cor to secs. 7, 8, 17 and 18 and there I run $789^{\circ} 15' E$ on a true line bet secs 8 and 17

at $14^{\circ} 49' E$

Top of bank 20 ft above cor; thence over rolling ground.

Culvert bears $310^{\circ} W$

Culvert bears $210^{\circ} E$

Culvert bears $230^{\circ} E$

Road to Mead bears $750^{\circ} W$.

The 1/4 acre cor. which is a sandstone finely set 10x10x8 ins above ground marked N on N face.

Enter dense willow undergrowth.

Pack creek, stream 8 miles wide bears N.W.
 Leave undergrowth.

Wood road bears N.W.

Gulch bears N.W.

Top of bluff 75 ft high.

Wood road bears $71^{\circ} 50' E$

Subdivision of 9260 R 22 E D. S. M.

80.00	Set a sandstone 26x12x9 ins. 19 ins in the ground for cor to secs 8 and 17, marked with 4 notches on N and 4 notches on E edge; raised a mound of stone 1½ ft high 2 ft base alongside. Pits imp. Land mountainous and rolling; soil, stony and sandy 4 th and 3 rd rate. Mountainous on 32.00 chs. Dense undergrowth on 4.00 chs.
	From this cor I now reestablish the E line of sec 17 by running S 0° 03' E on a true line on the E line of sec 17.
	To 14° 55' E
	descend over S slope of hill
24.70	Foot of hill 150 ft below sec cor.
28.30	Wood road bears S 60° W and N.E.
28.30	Irrigating ditch bears N.W.
30.00	Pack Creek running water 10 ltrs wide bears N 70° W.
30.40	Lime Kiln 3.00 chs W; enter cultivated land
31.20	Briar Kiln 4.00 chs W
36.00	J. Wilder's house 5.00 chs W.
38.50	C. McCourtie's house 2.50 chs E
39.80	Spring of pure water; leave cultivated land; foot of hill; as ced.
40.00	It is impracticable to set a stone in the ground, therefore set a sandstone 18x12x6 ins in a mound of stone 1½ ft high; 2 ft base for ¼ sec cor, marked ¼ on W face. Pits imp.
44.50	Top of bench bears N.W. and S.E. 30 ft above ¼ sec cor. Enter dense Artemesia undergrowth.
48.83	fence bears N 45° E and N 50° W.
50.40	Road to Murb bears N.W.
80.00	Set a sandstone 20x11x9 ins, 15 ins in the ground for cor to secs 17 and 20 marked with 3 notches on N and E edges; raised a mound of stone 1½ ft high 2 ft base alongside.

Subdivision of T 26 S R 22 E. D. S. M.

Land mountainous and live; soil
stony 4th rate and sandy 2nd rate.
No timber.
Mountainous on 24.70 chs.
Dense undergrowth on 38.50 chs.

Having ascertained that my lines cannot close upon the old survey within allowable limits, I begin at the cut to secs. 9, 10, 15 and 16 and run W on a true line bet secs 9 and 16

VA 14° 51' E

Through artemesia undergrowth

3.30 Coulter beans N.E.; leave undergrowth.
10.70 Gulch 50 ft deep bears S.
18.50 Ridge 100 ft high bears N.; descend.
23.40 Ridge bears N and S.
39.14 Intersect E line of sec 17, 10.50 chs off
cut to secs 8 and 14. Set a sandstone
18x10x6 ins 12 ins in the ground for
closing cut to secs 9 and 16, marked
with 4 grooves on N, 4 grooves on E and
C.C. on W face; raised a mound of stone
1 $\frac{1}{4}$ ft high, 2 ft base along side. Pits in.
Land mountainous; soil stony 4th rate.
No timber
Mountainous on 39.14 chs.

My special instructions require me to set closing corners where the lines of my survey intersect the lines of the previously surveyed portion of this T.P. in case the falling is not within allowable limits.
The N.E. cor of sec 16, as surveyed by me, is 0 10.50 chs and E 39.14 chs from the N.E. cor of sec 17 of the old survey.

The E line of sec 17 and E line of sec 20 not having been previously surveyed, it is manifestly impossible for me to comply with ^{this} requirement of my instructions in setting a closing cor for either

Subdivision of T. 17 S.R. 13 E. D.C. M.

the S or W bdy of sec. 16.

From the S.E. cor of sec 17 I extend the old survey by running W bet secs 17 and 20 and S on the E line of sec 20 and set a closing cor for the N bdy of sec 16 on the latter line, believing, that by so doing, the least complication and irregularity is introduced into the survey; and that it conforms more nearly with the spirit and intent of the system of public land surveys.

The cor to secs 17, 18, 19 and 20 not being set I begin at the cor to secs 17 and 20 previously reestablished by myself and run $089^{\circ}15'W$ on a true line bet secs 17 and 20
 Va $140^{\circ}50'E$

Gradually ascending through dense artemesia undergrowth

5.20 Coulter beans N.E.

13.40 Coulter beans N.E.

36.50 Coulter 30 ft deep bears $710^{\circ}W$

40.00 Set a sandstone 20x10x9 ins 15 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. Pitt imp.

Impassable cliffs prevent me from running further W.

Sand rolling; soil sandy and stony 3rd rate.
 No timber!

Dense undergrowth on 40.00 cha

Returning to the cor. to secs. 17. . . and 20
 I run $80^{\circ}03'E$ on a true line on the E line of sec. 20

Va $140^{\circ}50'E$

Gradually ascending through dense artemesia undergrowth

31.00 Either coulter beans from S to N.E.

35.00 Leave coulter beans from N.W!

Set a sandstone 18x15x6 ins 12 ins in the

Subdivision of T 26 S R 22 E

	ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on W face; dug pits $18 \times 18 \times 12$ ins W and S of stone $5\frac{1}{2}$ ft dia. and raised a mound of earth $1\frac{1}{2}$ ft high, $3\frac{1}{2}$ ft base alongside.
80.00	Set a sandstone $14 \times 8 \times 6$ ins 9 ins in the ground for cor to secs 20 and 29, marked with 2 notches on S and 4 notches on E edge; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside. Pits imp.
	Land rolling; soil sandy 2nd rate.
	No timber
	Dense undergrowth on 80.00 chs.

Knowing that the closing will not be within limits I begin at the cor to secs 15, 16, 21 and 22 hereinbefore described and run W on a true line bet secs. 16 and 21

Va $14^{\circ}55' E$

Through dense artemesia undergrowth

Pence bears $N 37^{\circ}15' W$ and $S 37^{\circ}15' E$

Road to Trout bears $N 37^{\circ}15' W$.

Coulee bears $N 10^{\circ} W$.

Intersect E line of sec 20, 10.56 chs D of cor to secs 17 and 20 previously reestablished by myself. Set a sandstone $18 \times 10 \times 6$ ins 12 ins in the ground for closing cor to secs 16 and 21, marked with 3 grooves on S, 4 grooves on E, and C.C. on W face; raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft base alongside.

Land rolling; soil sandy 2nd rate.

No timber.

Dense undergrowth on 39.33 chs.

From the cor to secs 21, 22, 27 and 28 I run W on a true line bet secs 21 and 28

Va $14^{\circ}54' E$

Gradually ascending through dense artemesia undergrowth

Coulee bears N.E.

Coulee bears N.E.

15.00

22.00

Subdivision of T 26 S R 22 E. S. L. M.

27.80	Ridge 75 ft high bears 720° E 5.00 chs; thence along N.E. slope of mountain.
- 39.33	A point which is 10.60 chs N of the cor to secs 20 and 29 at which I set a temporary corner. Land mountainous and rolling; soil, sandy and stony, 3 rd rate. Dense artemesia undergrowth on 39.33 chs.
-	I now proceed to the cor to secs 20 and 29 hereinbefore described and extend the former survey by running $0^{\circ}0'3''$ E on a true line on the E line of sec 29
10.60	$6 \text{a } 14^{\circ}55'6''$
	Through dense artemesia undergrowth ascend.
	Subtract temporary cor set by mean line bet secs 21 and 28 and establish same as a permanent closing cor. for secs 21 and 28 as follows: It being impracticable to set a stone in the ground, I set a sandstone 16x10x8 ins in a mound of stone $\frac{1}{2}$ ft high, 2 ft base for closing cor to secs 21 and 28 marked with 2 grooves on S, 4 grooves on E and C.C. on W face. Pits up.
	Land mountainous: soil stony 3 rd rate. No timber.
	Mountainous on 10.60 chs.
	Impassable cliffs render further progress in this direction impracticable.
	June 13 th 1894

Obs on Polaris Sept 13th 1894 at 8:22 P.M.
mountain time at 785° E 2.50 chs dist
from 1/4 sec. cor. bet. secs 21 and 22 Long
 $109^{\circ}29'$ W. Diff. between mountain and
local time 18 m

Local ast. mean time of obs Sep 12 32^h 22^m 18^s

Subdivision of T 26 S. R 22 E. D. L. M.

equals Sep 12 32° 04' m
 U.C. Polaris Sep 1st, 14° 34.8' m
 diff 11 days, sub. 11.1° 431' m

Local ast mean time of U.C. dep't^h 13^h 51.7^m
which latter from time of obs is 18^h, 2^m
the hour angle of Polaris.

23^h 50^m - 18^h, 12^m 5^s 44^m, argument for
Table II Lat 38.30 N

as Table II = $1^{\circ}35'$.

Having driven a stake on line 2 chs
N I find the magnetic bearing of
my line at 8 a.m. Sept 14th to be
 $W 13^{\circ} 27' W$

The declination is then $13^{\circ}27' + 1^{\circ}35'$
 $15^{\circ}02'E$ and the mean declination
is $14^{\circ}59'E$

General Description.

The surveyed portion of this Sp is a sandy flat valley extending along Pack creek and having high impassable sandstone cliffs on both sides.

The land back of the cliffs is made up mostly of bare sandstone ledges, pyramids and domes and is deeply cut by numerous canions.

There is no timber in this township.
Rock creek is generally dry excepting
in the spring when it furnishes water
for irrigation to the settlers in the valley.
There are springs of good water in sec.
15, 16 and 22.

The mean declination of the flat, the mean of three observations is $14^{\circ}50' E.$

C. Boen lives in Sec 22; his improvements consisting of house, several miles of fence, 1 $\frac{1}{2}$ miles irrigating ditch, orchard and 50 acres under cultivation, are valued at \$15 00⁰⁰

O' Neill is located in the N.E. 1/4 of sec 35; he has a log cabin, some fencing and

Subdivision of T 26 R 22 E S. L. M.

about 15 acres under cultivation
W Higgins in sec. 36, has a cabin and some
fencing.

J Hatch whose house is located a few chs.
S of the P.O. line, has about 5 acres in
orchard and garden in the N.W. $\frac{1}{4}$ sec 36
H Johnson and A Summerhill each
has a log house and some fencing
and about 20 acres under cultivation.
A McConkie has a log house in sec. 16
and about $\frac{1}{2}$ mile of fence. He cultivates
5 acres. The improvements of all the settlers
are of a permanent character.

Frank E. Baxter
U.S. Dep't Surveyor.

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I We hereby certify that I assisted Frank E. Baxter

, U. S. Deputy Surveyor, in surveying all those parts or portions of the Clark's Valley, & N. through T. 17 S. the exterior and subdivision lines of T. 17 S. R's 13 & 14 E.; the 4th Standard Parallel through R. 25 E. the exterior, sub- and subdivision lines of T. 18 S. R's 25 & 26 E.; T. 19 S. R. 26 E.; the exterior and subdivision lines of T. 19 S. R. 25 E.; the exterior R's 24 & 25 E. T. 25 N. the exterior & subdivisions of T. 24 S. R. 24 E.; the Colorado, & N. through T's. 26, 27 & 28 S. the exterior & subdivisions of T. 27 S. R. 23 E. and T. 26 S. R's 22 & 23 E.

Dalt Lake Meridian, Territory of Idaho, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of my knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for Wash
Edward Redmond Axemann

Subscribed and sworn to before me this

15th

day of

Nov



Henry P. Axemann
Notary Public

f-236

530



(630)

Approval.

Office of the U. S. Surveyor General,

, 18

The foregoing field notes of the survey of _____

executed by _____

under his Contract No. _____, dated _____, 18 _____, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

G-151

U. S. Surveyor General.

Final Oath of Assistants:

BOOK A-236

631

I We hereby certify that we assisted Frank E. Barker

, U. S. Deputy Surveyor, in surveying all those parts or portions of the Clark's Valley C. M. through T. 17. S. the extremes and subdivisions of T. 17. S. R. 138-14 E.; the 4th Standard Parallel S. through R. 24.5 E.; the extremes & subdivisions of T. 24.5 R. 258-26 E. and T. 19. S. R. 26 E.; the extremes of T. 19. S. R. 25 E.; the line bet R. 248-25 E. T. 25. S. the extremes & subdivisions of T. 24.5 R. 24 E.; the Colo. G. M. through T. 26. S. R. 26-28 E.; the extremes and subdivisions of T. 27. S. R. 23 E. & 9. R. 26. N. R. 22. E. 2. E. ✓

Salt Lake Meridian, Territory of Utah, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for the Territory of Utah.

Lorell Wells
Flagstaff

Subscribed and sworn to before me this 22^d }
day of January, 1895 }



6-151

Fred Seary
Notary Public
Nevada County
California

A - 234

day or , 18



Approval.

Office of the U. S. Surveyor General,

, 18

The foregoing field notes of the survey of

..... executed by

under his Contract No., dated ..., 18 , having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

Final Oath of Assistants:

BOOK A-236

I We hereby certify that we assisted Frank E. Baxter

, U. S. Deputy Surveyor, in surveying all those parts or portions of the Clark's Valley G.M. through 91.7.R. the extension & subdivision lines of Tps 120 R's 13 & 14 E.; The 4th Standard Parallel N through R 25 E.; the extensions & subdivisions of 92.0.R. R 25 and 26 E., 91.9.0.R 26 E., the extensions and subdivisions of 91.9.R 25 E.

Dalt Lassie Meridian, Territory of Montana, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of ^{my} knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for Math

George F. White
Chairman

Subscribed and sworn to before me this 29th
day of May, 1895 - }

See Witness 

J. P. Rock Valley
Miner

A-234

634

day of _____, 18 _____



Approval.

Office of the U. S. Surveyor General,

, 18

The foregoing field notes of the survey of _____

executed

under his Contract No. _____, dated _____, 18 _____, having been critical
examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe,
hereby approved.

U. S. Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in
_____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General

A list of the names of the individuals employed by Franklin E. Baxter, U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Clark's Valley, Guide Meridian through R. 17. D.; the exterior and subdivisions of R. 17. D. R. 13 and 14. E.; the 4th Standard Parallel, through R. 25. E.; the exterior, subdivisions and meridians of Tps. 20.0. R. 25 and 26. E. and T. 19.0. R. 26. E.; the exterior and subdivisions of T. 19.0. R. 25. E.; the line bet. R. 24.8. 25. E. through T. 25.0.; the exterior and subdivisions of T. 24.0. R. 24. E.; the Colo. G. M. through Tps. 26. 27 & 28.0.; the exterior and subdivisions of T. 27.0. R. 23. E. & T. 26.0. R. 22.8. 23. E. Dalt. S. Calk Meridian, in Territory of Utah, showing the respective capacities in which they acted:

<u>Wallace Watson</u>	<u>Chainsman</u>
<u>Samuel Morris</u>	"
<u>Geo. G. White</u>	"
<u>John W. Dallin</u>	"
<u>Edward Richmond</u>	<u>Assessor</u>
<u>Don Johnson</u>	<u>Flagman</u>
<u>Lowell Wells</u>	"

Final Oath of Assistants:

We hereby certify that we assisted Franklin E. Baxter, U. S. Deputy Surveyor, in surveying all those parts or portions of the Clark's Valley, Guide Meridian through R. 17. D.; the exterior and subdivisions of T. 19.0. R. 13 and 14. E.; the 4th Standard Parallel, through R. 25. E.; the exterior, subdivisions and meridians of Tps. 20.0. R. 25 & 26. E. and T. 19.0. R. 26. E.; the exterior and subdivisions of T. 19.0. R. 25. E.; the line bet. R. 24.8. 25. E. T. 25.0.; the exterior and subdivisions of T. 24.0. R. 24. E.; the Colo. G. M. through Tps. 26. 27 and 28.0.; the exterior and subdivisions of T. 27.0. R. 23. E. & T. 26.0. R. 22.8. 23. E.

Dalt. S. Calk Meridian, Territory of Utah, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for The Territory of Utah.

Wallace Watson Chainsman
Samuel Morris Chainsman

John W. Dallin Chainsman

Don Johnson Flagman

Subscribed and sworn to before me this 13th day of May, 1895 }

Hugh G. Dougall
Notary Public
My Commission expires Jan 23/97

I, Frank E. Baxter, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from George W. Snow, U. S. Surveyor General for the Territory of Utah, bearing date of the 18th day of January, 1894, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for the Territory of Utah, the surveying manual, and the laws of the United States, surveyed all those parts or portions of Colville Valley, W.M. through W.27.D.; the extreme & outside of 9.17.D. R. 24.E.; the 4th Standard Parallel N. Dirs.; R. 25.E.; the extreme outside of 9.20.D. R. 25.E. and 9.19.D. R. 26.E.; the extreme & outside of 9.19.D. R. 25.E.; the line betw. R. 21.18.25.E. thru R. 25.D.; the extreme & outside of 9.24.D. R. 24.E.; the cols. G. M. & H. 9.20.E. 2.7.8.2.8.0.; the extreme & outside of 9.27.D.; R. 2.6.E. & R. 2.2.E. & 2.3.E.

Dalt Lake, Meridian, in the Territory of Utah, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for the Territory of Utah, and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Frank E. Baxter

U. S. Deputy Surveyor.

Subscribed and sworn to before me this 28th
day of May, 1895 }

SEAL

Approval.

George W. Snow

U. S. Surveyor General

in Utah

Office of the U. S. Surveyor General,

Salt Lake City, Utah

June 6, 1895

The foregoing field notes of the survey of the Subdivisions of Township
26 South Range 22 East of the Salt Lake Base
& Northern Utah Territory

executed by

Frank E. Baxter

under his Contract No. 196, dated January 18, 1894 having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Snow

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.